

Une
INORNATA

Uma INORNATA

Uma inornata Temps for One Day
 (22 May 1963)

<u>A.M.</u>		<u>P.M.</u>	
<u>Time</u>	<u>Temp</u>	<u>Time</u>	<u>Temp</u>
0730	38.0	1205	36.0
0800	34.8	1210	36.4
0805	37.4	1215	37.0
0815	36.4	1215	37.6
0825	37.4	1235	38.8
0830	38.2	1255	38.6
0845	38.0	1305	43.2
0905	37.4	1320	39.0
0920	39.0	1325	38.4
0945	39.0	1400	38.0
0950	42.0	1405	38.2
0955	40.4	1425	39.2
1015	40.6	1430	36.2
1020	42.0	1440	40.6
1050	36.6	1515	39.6
1055	36.2	1525	38.4
1115	39.4	1530	38.4
1120	32.4	1535	38.4
1145	33.6	1545	39.0
1155	35.8	1550	35.0
		1605	34.2
		1615	36.0
		1620	35.6
		1635	35.0

$$\Sigma x = 754.6$$

$$N = 20$$

$$\bar{x} = 37.7$$

$$\Sigma x = 906.8$$

$$N = 24$$

$$\bar{x} = 37.7$$

Uma INORNATA TEMPS
 (BY MONTH)

FEBRUARY

	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
35.0		1225.00										
31.0	961.00											
<u>36.8</u>	1354.24											
<u>37.6</u>	1413.76											
36.4	1324.96											
<u>38.2</u>	1459.24											
<u>38.4</u>	1474.56											
38.6	1489.96											
32.8	1075.84											
36.2	1310.44											
36.0	1296.00											
37.2	1383.84											
37.0	1369.00											
<u>38.8</u>	1505.44											
<u>37.4</u>	1398.76											
<u>36.2</u>	1310.44											
<u>40.0</u>	1600.00											

$$\Sigma x = 623.6$$

$$N = 17$$

$$\Sigma x^2 = 22,952.48$$

$$\bar{x} = 36.68$$

$$(\bar{x})^2 = 1345.42$$

$$S^2 = 5.02$$

$$S.E. = \sqrt{.295}$$

$$= .543$$

$$\text{Range} = 31.0 \text{ to } 40.0$$

$$\bar{x} = 36.7$$

$$S.E. = 35.6 - 37.8$$

29M3T ATAMONI

(MAY 1978)

FEBRUARY

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Uma inornata TEMPS
 (BY MONTH)
MARCH

x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
38.8	1505.44	33.6	1128.96								
37.7	1421.29	33.2	1102.24								
38.3	1466.89	39.4	1552.36								
43.0	1849.00	42.5	1806.25								
36.9	1361.61	38.4	1474.56								
35.4	1253.16	38.0	1444.00								
25.8	665.64	35.8	1281.64								
36.8	1354.24	38.4	1474.56								
37.5	1406.25	38.2	1459.24								
36.9	1361.61	$\Sigma x = 1413.0$									
38.0	1444.00	$N = 39$									
33.2	1102.24										
37.5	1406.25	36.4	1324.96								
37.5	1406.25	38.2	1459.24								
39.0	1521.00	37.2	1383.84								
35.8	1281.64	36.6	1339.56								
36.4	1324.96	37.0	1369.00								
36.5	1332.25	38.0	1444.00								
37.6	1413.76	38.6	1489.96								
35.8	1281.64	35.0	1225.00								
34.6	1197.16	38.0	1444.00								
<u>34.0</u>	<u>1156.00</u>	<u>37.4</u>	<u>1398.76</u>								
<u>29.5</u>	<u>870.25</u>	<u>35.8</u>	<u>1281.64</u>								
<u>33.8</u>	<u>1142.44</u>	<u>37.0</u>	<u>1369.00</u>								
32.0	1024.00	38.0	1444.00								
35.2	1239.04	35.0	1225.00								
36.0	1296.00	36.0	1296.00								
35.0	1225.00	<u>37.4</u>	<u>1398.76</u>								
35.2	1239.04	<u>2004.6</u>	$= \Sigma x$								
35.8	1281.64	$N = 55$									

$$\sum x^2 = 73,446.22$$

Uma INORNATA TEMPS

APRIL

Uma INORNATA TEMPS (BY MONTH)

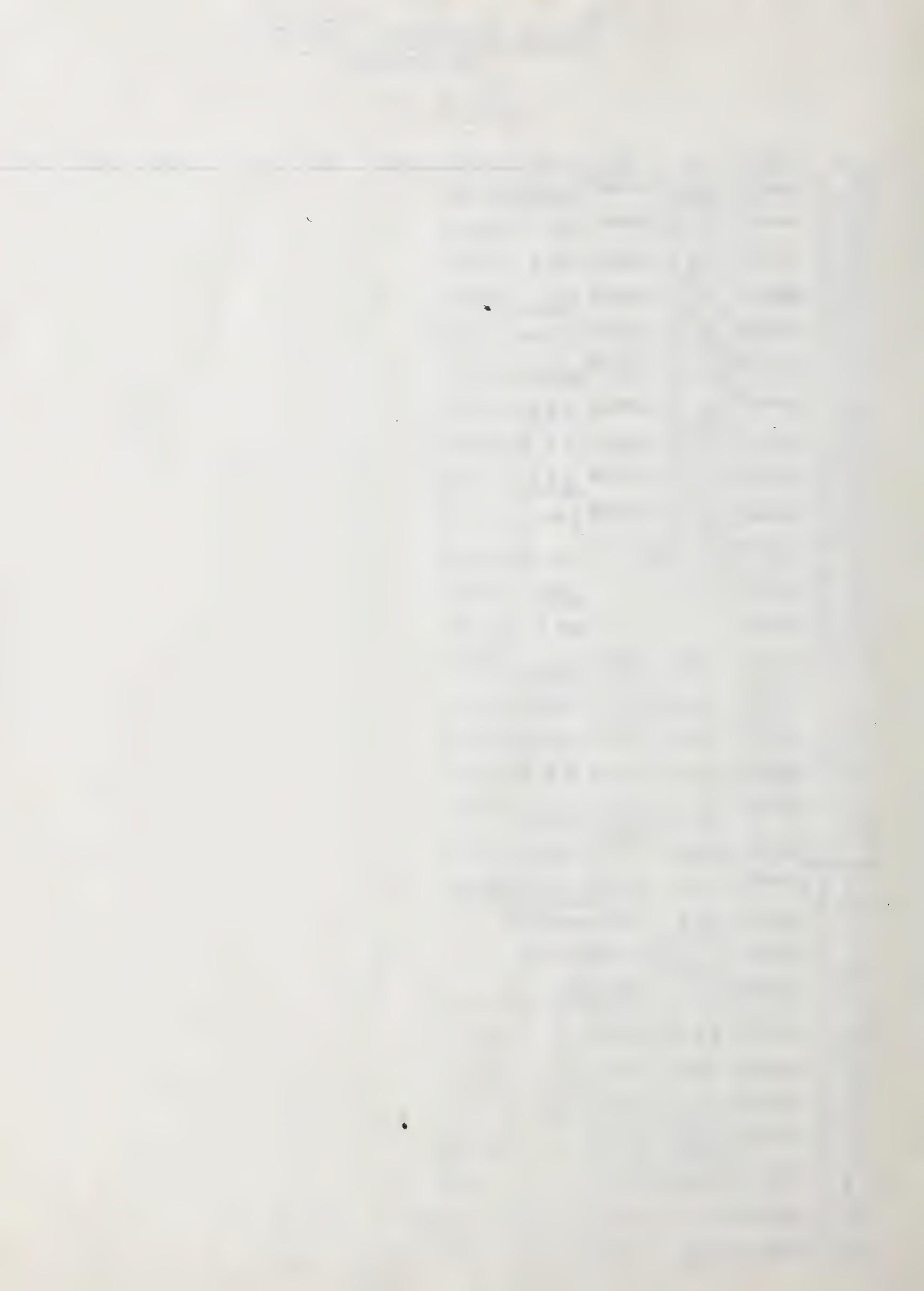
MAY

Uma INORNATA TEMPS (BY MONTH)

JUNE

Uma INORNATA TEMPS (BY MONTH)

JULY



Uma INORNATA TEMPS
(BY MONTH)

AUGUST

Vma INORNATA TEMPS
 (BY MONTH)
SEPTEMBER

x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
34.0	1156.00										
40.2	1616.04										
37.0	1369.00										
41.4	1713.96										
40.8	1664.64										
43.4	1883.56										
41.4	1713.96										
41.6	1730.56										
44.0	1936.00										
41.6	1730.56										
38.8	1505.44										
38.0	1444.00										
40.2	1616.04										
42.8	1831.84										
38.0	1444.00										
37.4	1398.76										
41.1	1689.21										
35.4	1253.16										
39.0	1521.00										
39.6	1568.16										
<hr/>											
$\Sigma x = 795.7$											

$N = 20$

$$\sum x^2 = 31,785.89$$

$$\bar{x} = 39.78$$

$$S^2 = 6.85$$

$$S = \sqrt{6.85} \\ S = 2.61$$

$$Range = 34.0 - 44.0 = 10.0 \quad S = 6.85$$

Yuma WORMATE TEMPS
 (BY MONTH)

OCTOBER

	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
<u>37.8</u>	1428.84													
<u>38.5</u>	1482.25													
<u>40.2</u>	1616.04													
<u>36.0</u>	1296.00													
<u>32.6</u>	1062.76													
<u>38.0</u>	1444.00													
<u>39.0</u>	1521.00													
<u>37.0</u>	1369.00													
<u>37.2</u>	1383.84													
<u>35.0</u>	1225.00													
<u>36.4</u>	1324.96													
<u>36.6</u>	1339.56													
<u>35.4</u>	1253.16													
<u>35.6</u>	1267.36													
<u>37.2</u>	1383.84													
<u>37.6</u>	1413.76													
$\Sigma x = 590.1$														

$$N = 16$$

$$\sum x^2 = 21,911.37$$

$$\bar{x} = 36.94$$

$$\bar{x}^2 = 1360.13$$

$$s^2 = 3.29$$

$$s = \sqrt{3.29}$$

$$= .454$$

$$\text{RANGE } 32.6 - 40.2$$

$$259 - 19 - 11.8 = 36.0$$

Uma WORNATA TEMPS
 (BY MONTH)
NOVEMBER

x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
<u>36.2</u>	<u>1310.44</u>												

$$n = 1$$

$$\sum x^2 = 1310.44$$

$$\sum x = 36.2$$

$$\bar{x} = 36.2$$

$$(\bar{x})^2 = 1310.44$$

Total

1959-1963

$$36.8 \quad 1319.34$$

$$\sum x = 15812.9$$

$$36.6 \quad 1316.36$$

$$N = 416$$

$$37.4 \quad 1322.36$$

$$\bar{x} = 38.0$$

$$36.0 \quad 13044.00$$

$$37.8 \quad 1428.84$$

$$36.2 \quad 1310.44$$

$$37.6 \quad 1322.36$$

$$36.4 \quad 1319.36$$

$$\sum x = 483$$

$$40.4 \quad 1616.16$$

$$L = 13$$

$$38.0 \quad 13044.00$$

$$\sqrt{L} = 3.61$$

$$35.2 \quad 1311.04$$

$$\sum x^2 = 18177.40$$

$$37.0 \quad 13169.00$$

$$\sum x^2 = 12071.00$$

$$S^2 = 1.5$$

$$S = 1.22$$

$$\sigma = 1.22$$

$$38.0 - 3.61 = 34.39$$

$$38.0 - 1.22 = 36.78$$

Uma INORNATA TEMPS
(BY SEX)

♂

X	X ²	X	X ²										
38.4	1474.56	40.2	1616.04	41.5	1722.25	35.2	1238.04	40.2	1616.04	36.0	12916.00		
39.0	1521.00	36.2	1310.44	38.4	1474.56	35.8	1281.64	41.4	1713.96	39.0	1521.00		
39.5	1560.25	38.8	1505.44	38.4	1474.56	33.2	1182.24	39.4	1652.36	37.0	1369.00		
36.5	1332.25	37.7	1421.29	38.0	1444.00	37.8	1428.84	39.6	1568.16	37.0	1369.00		
43.0	1849.00	38.3	1466.89	38.0	1444.00	37.6	1413.76	38.7	1497.69	37.6	1413.16		
41.8	1747.24	36.9	1361.61	39.0	1521.00	37.2	1383.84	37.4	1398.76	35.8	1281.64		
41.9	1755.61	36.8	1354.24	38.2	1469.24	36.6	1339.56	35.4	1253.16	40.4	1632.16		
33.0	1089.00	37.5	1406.25	38.4	1474.56	39.2	1536.64	39.0	1521.00	38.2	1459.24		
33.2	1102.24	36.9	1361.61	40.4	1632.16	39.6	1588.16	39.6	1568.16	37.0	1369.00		
37.2	1383.84	37.5	1406.25	38.1	1451.61	36.8	1354.24	31.0	961.00	38.0	1444.00		
42.2	1780.84	36.4	1324.96	38.2	1459.24	35.0	1225.00	36.8	1354.24	39.0	1521.00		
34.4	1183.36	37.0	1360.00	38.4	1474.56	36.6	1339.56	36.4	1324.96	38.6	1484.96		
40.4	1632.16	35.8	1281.64	40.2	1616.04	42.5	1806.25	38.2	1459.24	37.4	1398.76		
36.7	1346.89	36.0	1296.00	38.2	1459.24	38.0	1444.00	38.4	1474.56	38.0	1444.00		
35.2	1239.04	39.6	1568.16	35.8	1281.64	35.8	1281.64	32.8	1075.84	36.0	1296.00		
36.2	1310.44	34.7	1209.09	41.5	1722.25	36.6	1339.56	36.0	1296.00	38.6	1484.96		
39.4	1552.36	36.6	1339.56	44.0	1936.00	38.0	1444.00	37.0	1369.00	34.8	1211.04		
38.6	1489.96	37.6	1413.76	36.2	1310.44	34.5	1190.25	38.8	1505.44	37.4	1398.76		
39.5	1560.25	38.5	1482.25	37.8	1428.84	41.2	1697.44	37.4	1398.76	36.4	1324.96		
41.2	1697.44	38.6	1489.96	39.5	1560.25	38.0	1444.00	36.2	1310.44	37.4	1398.76		
41.6	1730.56	39.4	1532.36	43.5	1892.25	41.0	1681.00	36.4	1324.96	38.2	1459.24		
42.7	1823.29	34.6	1197.16	32.8	1428.84	39.0	1521.00	37.2	1383.84	38.0	1444.00		
42.4	1797.76	37.6	1413.76	34.5	1190.25	35.8	1281.64	38.0	1444.00	37.4	1398.76		
44.0	1936.00	36.5	1332.25	39.3	1544.49	41.5	1722.25	38.6	1489.96	39.0	1521.00		
40.2	1616.04	40.7	1656.49	35.0	1225.00	36.8	1354.24	35.0	1225.00	39.0	1521.00		
37.0	1369.00	44.0	1936.00	34.0	1156.00	43.5	1892.25	38.0	1444.00	40.4	1632.16		
40.8	1664.64	39.0	1521.00	33.8	1142.44	38.0	1444.00	37.4	1398.76	40.6	1648.36		
43.4	1883.56	35.8	1281.64	35.2	1239.04	42.0	1764.00	35.8	1281.64	36.2	1310.44		
41.4	1713.96	38.8	1505.44	36.0	1296.00	38.5	1482.25	38.0	1444.00	39.4	1552.36		
37.8	1428.84	32.2	1383.84	35.0	1225.00	39.2	1536.64	36.0	1296.00	32.4	1049.76		

Uma inornata Temps.

(BY SEX)

♂

X	X^2	X	X^2
33.6	1128.96	37.0	1369.00
35.8	1281.64	36.6	1339.56
36.0	1296.00	37.0	1369.00
37.0	1369.00	36.4	1324.96
38.8	1505.44	38.7	1497.69
39.0	1521.00	39.3	1544.49
38.0	1444.00	34.8	1211.04
39.2	1536.64	40.8	1664.64
40.6	1648.36	39.2	1536.64
39.6	1568.16	37.6	1413.76
38.4	1474.56	37.4	1398.76
39.0	1521.00	39.0	1521.00
35.0	1225.00	40.4	1632.16
34.2	1169.64	38.0	1444.00
35.6	1267.36	40.0	1600.00
36.0	1296.00	39.4	1552.36
40.0	1600.00	37.4	1398.76
36.0	1296.00	<u>40.8</u>	<u>1664.64</u>
38.2	1459.24	34.8	
36.6	1339.56	39.4	
40.0	1600.00	37.8	
37.6	1413.76	36.6	
36.6	1339.56	38.0	
39.0	1521.00		
37.0	1369.00		
38.2	1459.24		
37.0	1369.00		
33.4	1115.56		
40.2	1616.04		
31.4	985.96		
35.6	1267.36		

$$\Sigma X = 8685.3$$

$$N = 229$$

$$\bar{X} = 37.92$$

$$\Sigma X^2 = 379,674$$

$$(\bar{X})^2 = 1437.72$$

$$\Sigma^2 = 5,137$$

$$S.E. = \sqrt{1.023}$$

$$= .161$$

Vma INORNATA TEMPS
 (BY SEX)



\times	x^2	\times	x^2	\times	x^2	$\frac{x}{x^2}$	x	x^2	\times	x^2	\times	x^2
38.0	1444.00	36.0	1296.00	41.8	1742.24	32.0	1024.00	40.4	1632.16	36.4	1324.96	
38.5	1482.25	43.0	1849.00	38.2	1459.24	33.6	1128.96	39.2	1536.64	37.6	1413.76	
37.2	1383.84	35.4	1253.16	39.2	1536.64	37.4	1398.76	40.0	1600.00	38.6	1489.96	
39.4	1552.36	25.8	665.64	40.6	1648.36	38.8	1505.44	40.3	1624.09	43.2	1866.24	
40.0	1600.00	38.0	1444.00	40.0	1600.00	41.5	1722.25	39.8	1584.04	38.4	1474.56	
40.1	1608.01	33.2	1102.24	40.6	1648.36	41.2	1697.44	39.2	1536.64	38.2	1459.24	
40.4	1632.16	37.5	1406.25	39.4	1552.36	41.6	1730.56	38.4	1474.56	36.2	1310.44	
41.7	1738.89	36.6	1339.56	38.1	1451.61	38.8	1505.44	38.2	1459.24	38.4	1474.56	
41.3	1705.69	40.0	1600.00	40.4	1632.16	38.0	1444.00	38.0	1444.00	38.4	1474.56	
41.9	1755.61	38.4	1474.56	41.0	1681.00	40.2	1616.04	41.1	1689.21	36.0	1296.00	
41.9	1755.61	36.8	1354.24	32.6	1062.76	42.8	1831.84	37.6	1413.76	35.0	1225.00	
42.8	1831.84	36.8	1011.24	40.1	1608.01	37.2	1383.84	37.6	1413.76	34.2	1169.64	
35.3	1248.09	32.5	1406.25	40.5	1640.25	36.4	1324.96	38.6	1489.96	36.2	1310.44	
35.6	1262.36	35.2	1239.04	43.0	1849.00	35.4	1253.16	36.2	1310.44	34.2	1169.64	
38.6	1489.96	37.2	1383.84	36.8	1354.24	35.6	1267.36	37.2	1383.84	37.6	1413.76	
38.6	1489.96	36.6	1329.56	38.2	1459.24	37.2	1383.84	40.0	1600.00	36.5	1332.25	
38.8	1505.44	35.8	1281.64	39.0	1521.00	39.4	1552.36	38.2	1459.24	37.0	1369.00	
32.4	1049.76	34.0	1156.00	38.0	1444.00	38.4	1474.56	36.6	1339.54	37.2	1383.84	
38.4	1474.56	38.2	1459.24	38.6	1489.96	34.6	1197.16	37.0	1368.00	37.4	1398.76	
30.7	942.49	36.6	1339.56	38.6	1489.96	35.0	1225.00	37.0	1369.00	40.2	1616.04	
35.0	1225.00	40.6	1648.36	36.4	1324.96	38.8	1505.44	35.0	1225.00	31.4	1398.76	
32.5	1406.25	37.2	1383.84	33.8	1142.44	36.0	1296.00	37.4	1398.76	38.0	1444.00	
38.6	1489.96	37.7	1421.29	37.2	1383.84	43.0	1849.00	39.0	1521.00	38.0	1444.00	
42.3	1789.29	40.4	1632.16	36.2	1310.44	41.2	1697.44	36.8	1354.24	35.0	1225.00	
42.2	1780.84	32.6	1062.76	37.8	1428.84	40.5	1640.25	40.0	1600.00	37.6	1413.76	
38.9	1513.21	38.0	1444.00	41.4	1713.96	39.8	1584.04	38.0	1444.00	40.0	1600.00	
34.0	1156.00	39.0	1521.00	38.2	1459.24	39.4	1552.36	38.0	1444.00	38.0	1444.00	
41.4	1713.96	36.4	1324.96	39.6	1568.16	37.8	1428.84	42.0	1764.00	36.0	1296.00	
41.6	1730.56	39.5	1560.25	37.0	1368.00	36.8	1354.24	42.0	1764.00	39.1	1528.81	
38.5	1482.25	40.5	1640.25	29.5	870.25	41.4	1713.96	36.6	1339.56	37.6	1413.76	



$\frac{\text{Uma inornata Temp.}}{\text{(By Sex)}}$
♀

<u>X</u>	<u>X^2</u>	<u>X</u>	<u>X^2</u>
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38.0 1444.00

38.8 1505.44

39.0 1521.00

40.8 1664.64

41.0 1681.00

41.6 1730.56

40.4 1632.16

36.8 1354.24

36.6

38.0

36.2

37.6

40.4

35.2

37.0

$$\Sigma X = 7164.1$$

$$N = 188$$

$$\bar{X} = 38.10$$

$$\Sigma X^2 = 174,315.63$$

$$\bar{X}^2 = 1451.61$$

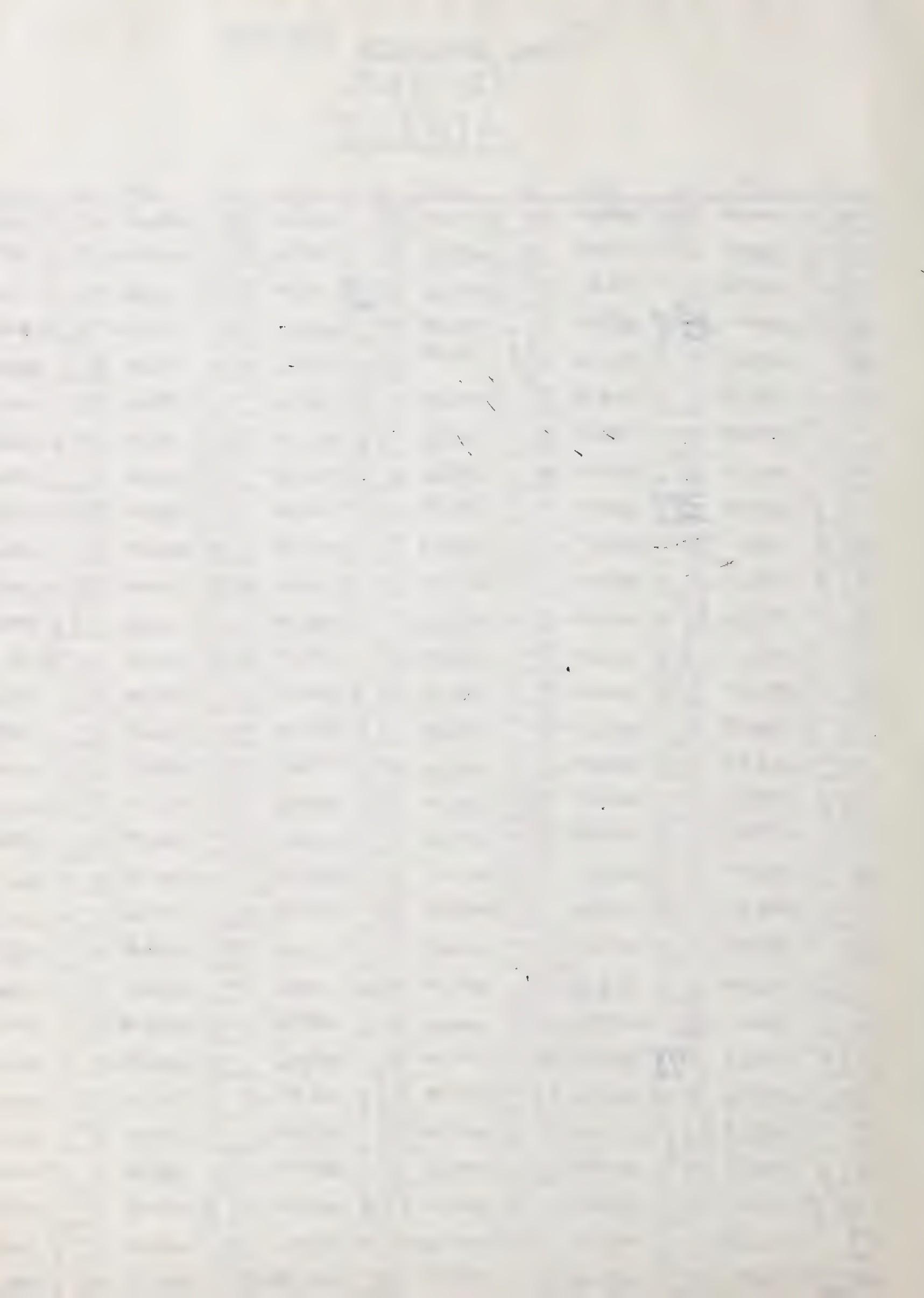
$$\sigma^2 = 7.56$$

$$\sigma = \sqrt{7.56}$$

$$= .20$$

Uma INORNATA TEMPS
 (BY AGE)
ADULT

x	x^2	x	x^2										
38.0	1444.00	34.0	1156.00	35.2	1232.04	38.1	1451.61	39.3	1544.49	42.8	1831.84		
37.2	1383.84	37.0	1369.00	38.6	1489.96	38.2	1459.24	39.6	1568.16	37.2	1383.84		
39.4	1552.36	41.4	1713.96	39.4	1552.36	40.2	1616.04	37.0	1369.00	35.0	1225.00		
40.0	1600.00	43.4	1883.56	37.2	1383.84	38.2	1459.24	35.0	1225.00	36.4	1324.96		
40.1	1608.01	41.4	1713.96	34.0	1156.00	40.4	1632.16	34.0	1156.00	36.6	1339.56		
40.4	1632.16	41.6	1730.56	38.2	1459.24	41.0	1681.00	28.5	870.25	35.4	1253.16		
41.7	1738.89	38.5	1482.25	36.6	1339.56	35.8	1281.64	33.8	1142.44	35.6	1267.36		
41.3	1705.69	40.2	1616.04	40.6	1648.36	41.5	1722.25	32.0	1024.00	37.2	1363.84		
43.0	1849.00	37.7	1310.44	37.2	1383.84	44.0	1936.00	35.2	1239.04	39.4	1552.36		
41.9	1755.61	38.3	1466.89	40.7	1666.49	32.6	1062.76	36.8	1296.00	42.5	1806.25		
41.9	1755.61	43.0	1849.00	37.7	1421.29	36.2	1310.44	35.0	1225.00	38.4	1474.56		
41.8	1747.24	35.4	1253.16	40.4	1632.16	37.8	1428.84	35.2	1239.04	38.0	1444.00		
41.9	1755.61	25.8	665.64	39.5	1560.25	40.1	1608.01	35.8	1281.64	35.8	1281.64		
42.8	1831.84	36.8	1354.24	40.5	1640.25	40.5	1640.25	33.6	1128.96	34.6	1197.16		
35.3	1246.09	36.9	1361.61	41.5	1722.25	43.0	1849.00	33.2	1102.24	36.6	1339.56		
33.2	1102.24	38.0	1444.00	41.8	1747.24	43.5	1892.25	37.8	1428.84	35.0	1225.00		
38.6	1489.96	33.2	1102.24	38.2	1459.24	37.9	1428.84	37.6	1413.76	38.0	1444.00		
38.6	1489.96	37.5	1406.25	38.4	1474.56	34.5	1192.25	37.2	1383.84	34.5	1192.25		
42.2	1780.84	37.5	1406.25	38.0	1444.00	36.8	1354.24	37.4	1398.76	38.8	1505.44		
38.8	1505.44	37.0	1369.00	38.0	1444.00	38.2	1459.24	36.6	1339.56	36.0	1296.00		
30.7	942.49	35.8	1281.64	39.2	1536.64	39.0	1521.00	39.2	1536.64	41.2	1697.44		
35.0	1225.00	36.6	1339.56	40.6	1648.36	38.0	1444.00	39.6	1568.16	38.0	1444.00		
36.2	1310.44	40.0	1600.00	40.0	1600.00	38.6	1489.96	38.8	1505.44	43.0	1849.00		
37.5	1406.25	39.5	1406.25	39.0	1521.00	38.6	1489.96	36.8	1354.24	41.0	1681.00		
38.6	1489.96	38.4	1474.56	38.2	1459.24	33.8	1142.44	41.5	1722.25	39.0	1521.00		
42.3	1789.29	31.8	1011.24	40.6	1648.36	37.2	1383.84	41.2	1697.44	35.8	1281.64		
41.6	1730.56	34.7	1204.09	38.4	1474.56	36.2	1310.44	41.6	1730.56	41.5	1722.25		
38.9	1513.21	36.6	1339.56	40.4	1632.16	37.8	1428.84	38.8	1505.44	41.2	1697.44		
42.7	1823.29	37.6	1413.76	39.4	1552.36	41.4	1713.96	38.0	1444.00	36.8	1354.24		
44.0	1936.00	38.5	1482.25	38.1	1451.61	38.2	1459.24	40.2	1616.04	43.5	1892.25		



Yma WORNATA TEMPS
(BY AGE)

ADULT

\bar{x}	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
40.5	1640.25	36.4	1324.96	42.0	1764.00	40.0	1600.00	41.0	1681.00				
39.8	1584.04	38.2	1459.24	36.6	1339.56	37.6	1413.76	41.6	1730.56				
38.0	1444.00	38.0	1444.00	36.2	1310.44	36.6	1339.56	40.0	1600.00				
42.0	1764.00	38.6	1489.96	39.4	1552.36	39.0	1521.00	39.4	1552.36				
38.5	1482.25	38.0	1444.00	32.4	1049.76	37.0	1369.00	40.4	1632.16				
39.2	1536.64	38.0	1444.00	33.6	1128.96	37.0	1369.00	36.8	1354.24				
39.4	1552.36	36.0	1296.00	35.8	1281.64	33.4	1115.56	40.8	1664.64				
37.8	1428.84	37.4	1398.76	36.0	1296.00	40.2	1616.04						
36.8	1354.24	36.0	1296.00	36.4	1324.96	31.4	985.96						
40.2	1616.04	39.0	1521.00	37.0	1369.00	35.6	1367.36						
41.4	1713.96	37.0	1369.00	37.6	1413.76	37.0	1369.00						
41.4	1713.96	37.6	1413.76	38.6	1489.96	36.6	1339.56						$\Sigma x = 11714.2$
40.4	1632.16	35.8	1281.64	38.2	1459.24	35.0	1225.00						$N = 307$
39.2	1536.64	40.4	1632.16	39.2	1536.64	37.6	1413.76						$\bar{X} = 38.15$
40.0	1600.00	37.0	1369.00	36.2	1310.44	40.0	1600.00						$\Sigma x^2 = 448741.75$
40.3	1624.09	39.0	1521.00	38.4	1474.56	36.4	1324.96						$(\bar{X})^2 = 1455.42$
39.4	1552.36	38.0	1444.00	38.4	1474.56	38.0	1444.00						$S^2 = 6.67$
39.8	1584.04	36.8	1354.24	38.4	1474.56	36.0	1296.00						$S = \sqrt{6.67} = 2.58$
39.2	1536.64	38.0	1444.00	35.0	1225.00	38.7	1497.69						$= 2.14$
39.6	1568.16	38.6	1489.96	36.0	1296.00	39.3	1544.49						
38.7	1492.69	34.8	1211.04	35.6	1267.36	37.6	1413.76						
38.0	1444.00	37.4	1398.76	35.0	1225.00	34.8	1211.04						
37.4	1398.76	37.4	1398.76	36.5	1372.25	39.2	1536.64						
41.1	1689.21	38.2	1459.24	37.0	1369.00	38.8	1505.44						
35.4	1253.16	38.0	1444.00	37.2	1383.84	39.0	1521.00						
39.0	1521.00	39.0	1521.00	37.4	1398.76	40.8	1664.64						
39.6	1568.16	39.0	1521.00	40.2	1616.04	37.4	1398.76						
38.4	1474.56	42.0	1284.00	37.4	1398.76	39.0	1521.00						
32.8	1075.84	40.4	1632.16	38.0	1444.00	40.4	1632.16						
37.2	1383.84	40.6	1678.36	38.2	1459.24	38.0	1444.00						

Uma INORNATA TEMPS
 (BY AGE)

IMMATURE

X	X^2	X	X^2	X	X^2	X	X^2	X	X^2	X	X^2	X	X^2
38.4	1424.56	36.8	1354.24	38.8	1505.44	39.0	1521.00						
38.5	1482.25	39.6	1568.16	37.4	1398.76	34.2	1169.64						
39.0	1521.00	36.6	1339.56	36.2	1310.44	34.2	1169.64						
39.5	1560.25	34.6	1192.16	40.0	1600.00	36.0	1296.00						
36.5	1332.25	35.8	1281.64	37.2	1383.84	40.0	1600.00						
33.0	1089.00	37.6	1413.76	36.6	1339.56	36.2	1310.44						
37.2	1383.84	36.5	1332.25	37.0	1369.00	34.2	1169.64						
35.6	1267.36	44.0	1936.00	35.0	1225.00	37.6	1413.76						
34.4	1183.36	32.6	1062.76	37.4	1398.76	36.0	1296.00						
32.4	1049.76	38.0	1444.00	35.8	1281.64	38.0	1444.00						
40.4	1632.16	39.0	1521.00	37.0	1369.00	36.6	1339.56						
38.4	1474.56	39.0	1521.00	35.0	1225.00	38.2	1459.24						
36.7	1346.89	35.8	1281.64	37.0	1369.00	37.0	1369.00						
35.2	1238.04	36.4	1324.96	38.2	1459.24	39.1	1528.81						
39.4	1552.36	38.8	1505.44	39.0	1521.00	40.8	1664.64						
39.5	1560.25	37.2	1383.84	40.0	1600.00	38.0	1444.00						
38.6	1489.96	38.4	1474.56	37.4	1398.76	37.6	1413.76						
42.2	1280.84	38.4	1474.56	38.0	1444.00	37.4	1398.76						
41.2	1697.44	39.5	1560.25	36.0	1296.00	37.6	1413.76						
42.4	1797.76	36.4	1324.96	38.6	1489.96	38.6	1489.96						
40.2	1616.04	38.4	1474.56	38.0	1444.00	36.8	1364.64						
40.8	1664.64	38.2	1459.24	36.4	1324.96	36.8	1324.96						
37.8	1428.84	31.0	961.00	37.4	1398.76	37.4	1362.36						
36.0	1296.00	36.8	1354.24	38.8	1505.44	38.0	1444.00						
36.2	1310.44	37.6	1413.76	43.2	1866.24	37.8	1413.76						
38.8	1505.44	36.4	1324.96	39.0	1521.00	37.6	1413.76						
36.9	1361.61	38.2	1459.24	38.4	1474.56	38.0	1474.56						
37.5	1406.25	36.2	1310.44	38.0	1444.00	36.8	1364.64						
36.4	1324.96	36.0	1296.00	40.6	1648.36								
36.0	1296.00	37.0	1369.00	39.6	1568.16								

$$\Sigma X = 4135.2$$

$$N = 110$$

$$\bar{X} = 37.57$$

$$\sum X^2 = 155,470.74$$

$$\bar{(X)}^2 = 1413.76$$

$$S_{xx} = 41,67$$

$$S_{xx} = \sqrt{41,67}$$

$$= 217$$

Water content of
Soil sample

36.2 17.0%

36.6 17.6%

36.4 16.9%

32.0 16.7%

TIME *Uma inornata* ARE ACTIVE, BY MONTH
(N =)

TIME	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
0500												
0530								1				
0600												
0630						=						
0700		1		1		2						
0730					11	2222	2222	2222	2222			
0800						222222	222222	222222	222222			
0830			1111	1111	1111	222222	222222	222222	222222	11		
0900		1	2222			222222	222222	222222	222222			
0930		1111	1111			222222	222222	222222	222222	11		
1000	1	222222	2222			222222	222222	222222	222222	1111		11
1030	1111	2222	1111			222222	222222	222222	222222	1111		1111
1100		222222	1111			222222	222222	222222	222222	1		1111
1130		222222	1111			222222	222222	222222	222222	11		1111
1200	1111	222222	1111			222222	222222	222222	222222	1111		1111
1230		1111	1111			222222	222222	222222	222222	1111		1111
1300	1	11				222222	222222	222222	222222	1111		1111
1330	1111	11				222222	222222	222222	222222	1111		1111
1400	11	2222	1111			222222	222222	222222	222222	1111		1111
1430		222222	1111			222222	222222	222222	222222	1111		1111
1500	1	222222	1111			222222	222222	222222	222222	1111		1111
1530			222222222222			222222	222222	222222	222222	1111		1111
1600	1		222222222222	1111		222222	222222	222222	222222	1111		1111
1630			2222	1111		222222	222222	222222	222222	1111		1111
1700			1									
1730										11		
1800												
1830												
1900												
1930												

* (111) = in shade (deep) at Palm Springs Panorama.

Ume
notata

*Uma
hotata*

AM

Clima notata Temps. (°C)
(April 13, 1965)

code

0331-0930 = 0900

<u>0900</u>	<u>1000</u>	<u>1100</u>	<u>1200</u>
<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>
34.8 1211.04	36.2 1310.44	33.0 1089.00	40.0 1600.00
34.0 1156.00	31.2 973.44	34.0 1156.00	41.0 1681.00
31.2 973.44	33.2 1102.24	37.0 1369.00	39.0 1521.00
	34.2 1169.64	33.6 1128.96	38.4 1474.56
	35.0 1225.00	41.4 1713.96	36.8 1354.24
	32.0 1024.00	37.4 1348.76	
	38.4 1474.56	34.0 1156.00	
	40.0 1600.00	37.5 1406.25	
	35.8 1281.64		
	31.0 961.00		
	34.2 1169.64		
	39.5 1560.25		
	36.2 1310.44		
	34.8 1211.04		
	34.6 1197.16		
	40.4 1632.16		

$N = 3$

$\Sigma X = 100.0$

$\Sigma X^2 = 566.7$

$\bar{X} = 33.3$

$\text{Range} = 31.2 -$

$\bar{X} = 34.8$

$\bar{X} = 1169.64$

$\bar{X} = 1102.24$

$\bar{X} = 1369.00$

$\bar{X} = 1521.00$

$\bar{X} = 1474.56$

$\bar{X} = 1354.24$

$\bar{X} = 1681.00$

$\bar{X} = 1713.96$

$\bar{X} = 1406.25$

$\bar{X} = 1560.25$

$\bar{X} = 1281.64$

$\bar{X} = 961.00$

$\bar{X} = 1197.16$

$\bar{X} = 1632.16$

$\bar{X} = 1149.8$

$\Sigma X^2 = 1149.8$

$N = 32$

$\bar{X} = 35.9$

$\text{Range} = 31.0 - 41.4$

16

287.9

5

195.2

1017.00

1017.00

36.0

37.0

$31.0 -$

$36.8 -$

41.4

41.0

1225.00

1521.00

1102.24

1369.00

1169.64

1474.56

1354.24

1681.00

1713.96

1906.25

1149.8

1560.25

1281.64

1406.25

961.00

1197.16

1632.16

1854.00

1149.8

1354.24

1681.00

1854.00

1713.96

1906.25

1149.8

1354.24

1632.16

1854.00

1281.64

1406.25

1149.8

1354.24

1681.00

1854.00

1713.96

1906.25

1149.8

1354.24

1632.16

1854.00

1281.64

1406.25

1149.8

1354.24

1681.00

1854.00

1713.96

1906.25

1149.8

1354.24

1632.16

1854.00

1281.64

1406.25

1149.8

1354.24

1681.00

1854.00

1713.96

1906.25

1149.8

1354.24

1632.16

1854.00

1281.64

1406.25

1149.8

1354.24

1681.00

1854.00

1713.96

1906.25

1149.8

1354.24

1632.16

1854.00

1281.64

1406.25

1149.8

1354.24

1681.00

1854.00

1713.96

1906.25

1149.8

1354.24

1632.16

1854.00

1281.64

1406.25

1149.8

1354.24

1681.00

1854.00

1713.96

1906.25

1149.8

1354.24

1632.16

1854.00

1281.64

1406.25

1149.8

1354.24

1681.00

1854.00

1713.96

1906.25

1149.8

1354.24

1632.16

1854.00

1281.64

1406.25

1149.8

1354.24

1681.00

1854.00

1713.96

1906.25

1149.8

1354.24

1632.16

1854.00

1281.64

1406.25

1149.8

1354.24

1681.00

1854.00

1713.96

1906.25

1149.8

1354.24

1632.16

1854.00

1281.64

1406.25

1149.8

1354.24

1681.00

1854.00

1713.96

1906.25

1149.8

1354.24

1632.16

1854.00

1281.64

1406.25

1149.8

1354.24

PM

Lima notata Temps. ($^{\circ}$ C)
 (April 13, 1965)

	<u>1300</u>	<u>1400</u>	<u>1500</u>	<u>1600</u>	<u>1700</u>	
	<u>X</u>	<u>X^2</u>	<u>X</u>	<u>X^2</u>	<u>X</u>	<u>X^2</u>
38.0	1444.00	40.6	1648.36	38.6	1489.96	33.5
37.0	1369.00	35.4	1253.16	34.6	1197.16	37.0
37.5	1406.25	39.5	1560.25	36.4	1324.96	36.2
38.8	1505.44	36.0	1296.00	36.6	1339.56	34.6
					1197.16	31.0
					31.0	761.00
					38.2	1459.24
					33.6	1128.96
					28.2	795.24
					37.4	1398.76
					33.6	1128.96
					29.2	852.64
					35.0	1225.00
					33.7	1135.69
					34.0	1156.00
					34.5	1190.25
					35.2	1239.04
					30.0	900.00
					36.2	1310.44
					36.0	1296.00
					30.0	700.00
					33.8	1142.44
					33.8	1142.44
					32.4	1049.76
					32.0	1024.80
					31.2	973.44

$N =$	4	4	10	13	9
$\Sigma X =$	151.3	151.5	361.0	443.1	270.4

$\Sigma X^2 =$	1183.50	1183.50	1183.50	1183.50	1183.50
$\bar{X} =$	37.8	37.9	36.1	34.1	30.0

Range =	37.0 - 38.8	35.4 - 40.6	33.8 - 38.6	31.2 - 37.0	28.2 - 34.0
$s^2 =$	11.51	11.51	11.51	11.51	11.51

$s^2 =$	3.11	4.04	3.11	3.11	3.11
$s =$	1.76	2.01	1.76	1.76	1.76

PM Entire Day

$$\Sigma X = 1377.3 \quad 2527.1$$

$$(\bar{X})^2 = 1183.50 \quad \Sigma X^2 = \dots$$

$$s^2 = 11.51 \quad N = 40 \quad 72$$

$$s = 3.39 \quad \bar{X} = 34.4 \quad 35.1$$

$$\text{Range} = 28.2 - 40.6 \quad 28.2 - 41.4$$

Uma notata Temp.
(April 14, 1965)

<u>0800</u>	<u>C960</u>	<u>1000</u>	<u>1160</u>
<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>
32.2	1036.84	35.0	1225.00
35.6	1267.36	31.3	979.69
36.0	1296.00	30.0	900.00
		36.5	1332.25
		31.4	985.96
		30.6	936.36
		33.6	1128.76
		37.0	1521.00
		33.6	1128.96
		31.2	973.44
		36.2	1310.44
		35.6	1267.36
		31.8	1011.24
		37.0	1369.00
		33.5	1122.25
		38.3	1466.89
		42.0	1764.00
		37.6	1413.76
		34.4	1183.36

$$N = 3$$

14

18

13

43

$$\sum x = 103.8$$

469,8

658,3

481.5

1713, 4

$$\sum x^2 = \dots$$

7 ; -

$$\bar{X} = 34.6$$

33.6

36.6
29.4-

37.0

35.7
29.4 -
43.9

Uma notata Temps. (1958-1962)
 (0800 to 1700 — April thru August)

			<u>Temp(°C)</u>	<u>No.</u>	<u>%</u>		
34.4	37.6	39.6	43.4	N = 93	32	2	2
43.0	37.0	39.8	41.4	$\Sigma x = 3681.5$	33	2	2
41.5	38.0	37.1	38.6	$\bar{x} = 39.5$	34	3	3
42.8	32.6	41.0			35	1	1
44.7	40.5	38.1			36	6	6
38.2	41.8	36.4			37	8	8
40.6	40.6	34.1			38	10	10
45.3	41.6	39.0			39	12	12
42.8	40.6	42.8			40	12	12
39.0	43.6	42.4			41	12	12
43.5	44.2	42.6			42	7	7
37.2	36.4	41.1			43	11	11
36.4	31.8	41.0			44	5	5
36.2	38.4	39.9			45	2	2
40.5	34.1	41.2					
42.0	37.4	41.2					
39.1	38.0	42.4					
44.4	31.9	41.5					
40.5	39.2	38.6					
42.2	39.2	39.0					
40.4	37.8	41.2					
32.6	39.2	41.9					
37.2	35.2	39.0					
36.5	38.2	40.0					
43.0	36.4	44.4					
39.8	43.8	42.8					
39.7	38.6	40.0					
40.2	37.5	39.4					
36.8	38.5	43.4					
36.6	37.6	42.8					

Lima Octata Temp.
 (April)

(underlined = no choice)

<u>x</u>	<u>x²</u>								
34.6	1169.64	37.4	1398.76	33.6	1128.96	33.6	1128.96	<u>38.0</u>	1444.00
32.0	1024.00	34.0	1156.00	33.6	1128.96	31.2	973.44	<u>35.7</u>	1274.49
29.6	876.16	37.5	1406.25	33.7	1135.69	36.2	1310.44	34.0	1156.00
30.5	930.25	40.0	1600.00	35.2	1239.04	35.6	1267.36	38.1	1451.61
29.8	888.04	41.0	1681.00	<u>36.0</u>	1296.00	31.8	1011.24	38.2	1459.24
<u>31.5</u>	992.25	39.0	1521.00	33.8	1142.44	<u>37.0</u>	1369.00	<u>33.8</u>	1142.44
34.8	1211.04	<u>38.4</u>	1474.56	<u>32.4</u>	1049.76	33.5	1122.25	36.4	1324.96
<u>34.0</u>	1156.00	36.8	1354.24	<u>32.0</u>	1024.00	34.8	1211.04	35.4	1253.16
31.2	973.44	38.0	1444.00	<u>31.2</u>	973.44	34.6	1197.16		
36.2	1310.44	37.0	1369.00	<u>28.6</u>	829.44	36.5	1332.25		11 = 175
31.2	973.44	37.5	1406.25	28.2	795.24	37.2	1383.84		28 = 68
33.2	1102.24	38.8	1505.44	31.0	961.00	29.4	864.36		21 = 42
34.2	1169.64	40.0	1600.00	31.0	961.00	35.4	1253.16		7 = 14
35.0	1225.00	35.4	1253.16	28.2	795.24	37.2	1383.84		(X) = 21
32.0	1024.00	39.5	1560.25	<u>27.2</u>	852.64	32.4	1049.76		P = 21.1 - 44.00
38.4	1474.56	36.0	1296.00	34.0	1156.00	39.3	1544.49		
40.0	1600.00	<u>38.6</u>	1489.96	30.0	900.00	36.0	1296.00		
35.5	1281.64	<u>37.6</u>	1197.16	30.0	900.00	39.5	1560.25		26.1 - 0.76 = 27.1
31.0	961.00	<u>36.4</u>	1324.96	23.3	542.89	38.0	1444.00		22.6 - 1.16
34.2	1169.64	36.6	1339.56	32.2	1036.84	36.9	1361.61		
39.5	1560.25	38.2	1459.24	35.6	1267.36	38.8	1505.44		35.4 - 1.61
36.2	1310.44	<u>37.4</u>	1398.76	36.0	1296.00	38.3	1466.89		
34.8	1211.04	35.0	1225.00	25.0	625.00	42.0	1764.00		
34.6	1197.16	34.5	1190.25	35.0	1225.00	<u>37.6</u>	1413.70		
40.4	1632.16	36.1	1310.44	31.3	979.69	34.4	1183.36		
33.0	1089.00	33.8	1142.44	30.0	900.00	41.0	1681.00		
34.0	1156.00	33.6	1142.44	31.4	985.96	34.0	1156.00		
37.0	1369.00	<u>37.0</u>	1369.00	30.6	936.36	39.0	1521.00		
<u>33.6</u>	1128.96	<u>36.2</u>	1310.44	<u>33.6</u>	1128.96	40.8	1664.64		
41.4	1713.96	<u>34.6</u>	1197.16	<u>39.0</u>	1521.00	37.1	1376.41		

~~31.1~~

Uma notata Temp.

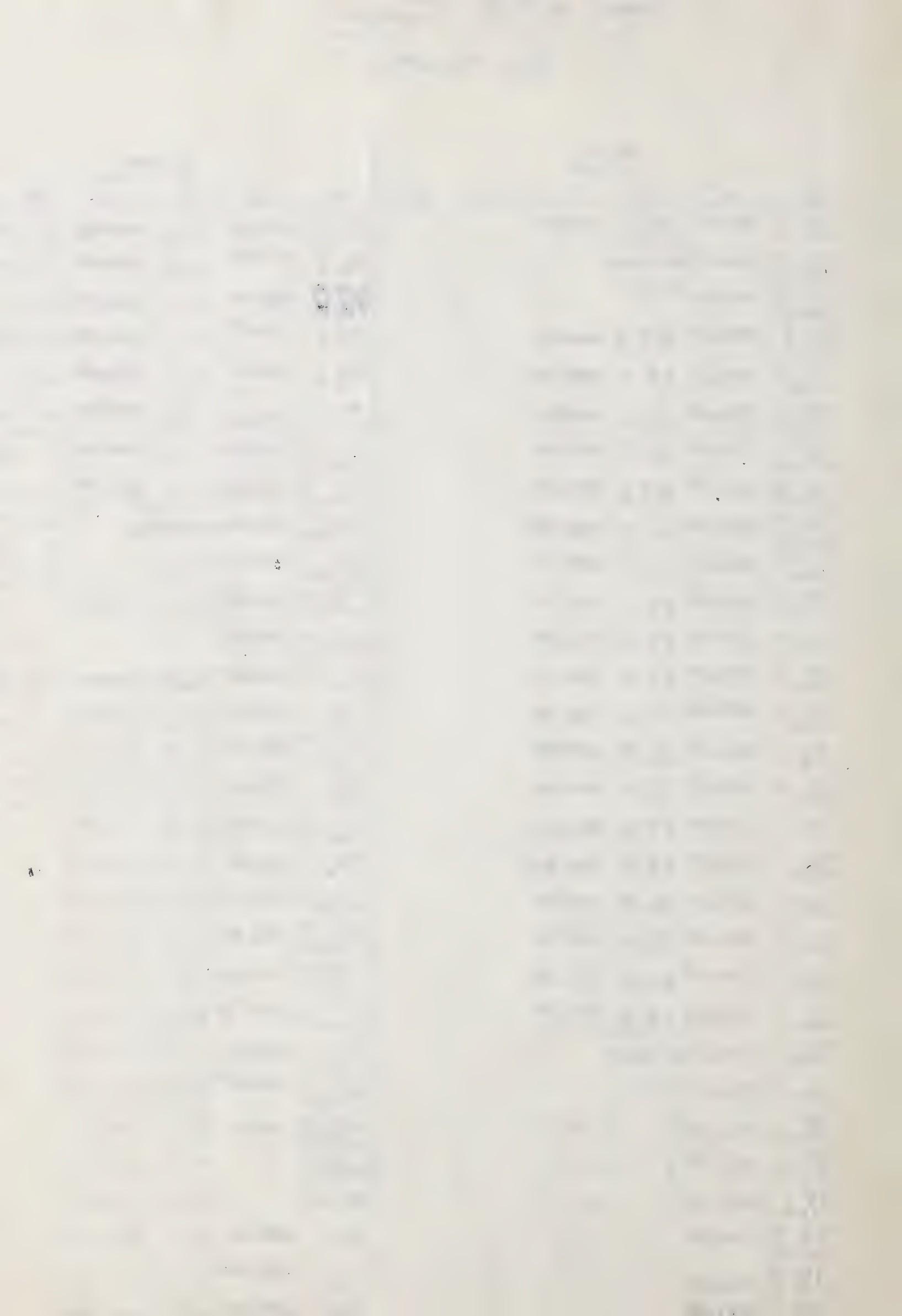
(By Month)

(underlined = no chisel)

<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>				
x	x ²	x	x ²	x	x ²	x	x ²
31.7 1004.89	<u>25.2</u> 635.04	<u>29.4</u> 864.36	<u>20.6</u> 424.36	40.4 1632.16	40.2 1616.04		
34.2 1169.64	<u>23.1</u> 533.61	<u>36.8</u> 1354.24	<u>N=29</u>	32.6 1062.76	39.0 1521.00		
27.5 756.25	<u>24.6</u> 605.16	<u>32.2</u> 1036.84	<u>$\Sigma x^2 = 1017.5$</u>	37.2 1383.84	42.0 1764.00		
<u>31.6</u> 998.56	<u>24.2</u> 585.64	<u>30.1</u> 906.01	<u>$\Sigma x^2 = 35,838.29$</u>	36.5 1332.25	42.6 1814.76		
31.8 1011.24	<u>26.9</u> 723.61	<u>34.2</u> 1169.64	<u>$\bar{x} = 77.04$</u>	43.0 1849.00	39.6 1568.16		
<u>31.8</u> 1011.24	<u>28.3</u> 800.89	<u>37.2</u> 1383.84	<u>$\bar{x} = 77.04$</u>	<u>39.8</u> 1584.04	39.6 1568.16		
$\Sigma x = 188.6$	<u>19.0</u> 361.00	<u>28.2</u> 795.24	<u>$\bar{x} = 77.04$</u>	39.7 1576.09	39.4 1552.36		
$N=6$	<u>32.3</u> 1043.29	<u>27.3</u> 745.29	<u>$\bar{x} = 77.04$</u>	40.2 1616.04	36.4 1324.76		
$\Sigma x^2 = 5,951.82$	28.1 789.61	32.1 1030.41		36.8 1354.24	40.0 1600.00		
$\bar{x} = 31.43$	31.1 967.21	34.5 1190.25		36.6 1339.56	<u>39.2</u> 1536.64		
$(\bar{x})^2 = 977.84$	34.2 1169.64	30.0 900.00		37.6 1413.76	36.2 1310.44		
$S^2 = 4.96$	<u>23.6</u> 556.96	32.4 1049.76		37.0 1369.00	<u>39.0</u> 1521.00		
$S.E = 1.73$	32.7 1069.29	33.6 1128.96		38.0 1444.00	<u>38.6</u> 1489.96		
$= .909$	30.4 924.16	40.1 1608.01		32.6 1062.76	$\Sigma x = 1624.8$		
$2 S.E = 1.8$	29.9 894.01	39.4 1552.36		40.5 1640.25	N=42		
$(\bar{x}) - 2 S.E = 27.5$	30.2 912.04	38.0 1444.00		41.8 1747.24			
34.2	22.6 510.76	35.2 1239.04		40.6 1648.36	40.0 1600.00		
	23.7 39.6 696.69	38.9 1513.21		41.6 1730.56	40.8 1664.64		
	<u>35.0</u> 1225.00	39.7 1576.09		40.6 1648.36	37.0 1369.00		
	35.0	25.0 625.00		43.6 1900.96	36.6 1339.56		
	35.0	35.0 1225.00		44.2 1953.64	<u>35.4</u> 1253.16		
$\Sigma x = 525.1$		40.6 1648.36		<u>36.4</u> 1324.96	N=42		
$N=19$		39.6 1568.16		31.8 1011.24	$\Sigma x = 1814.6$		
$\Sigma x^2 = 14,868.61$		37.2 1383.84		38.4 1474.56	$\Sigma x = 70,409.04$		
$\bar{x} = 27.53$		41.6 1730.56		34.1 1162.81	$\bar{x} = 31.00$		
$(\bar{x})^2 = 770.41$		43.6 1900.96		37.4 1398.76	$\Sigma x = 77.76$		
$S^2 = 20.23$		41.5 1722.25		38.0 1444.00			
$S.E = \sqrt{1.03}$		33.5 1122.25		39.0 1521.00			
		$\Sigma x = 996.9$		37.0 1369.00	$\bar{x} = 42.00$		
		$N=28$		$\Sigma x = 1113.0$	$\bar{x} = 39.00$		
				$N=29$	$\bar{x} = 40.00$		

Una notata Temp.
 (By Month)

<u>May</u>						<u>June</u>					
x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
35.8	1281.64	<u>38.6</u>	1489.96			35.4	1253.16	36.6	1339.56	43.4	1864.96
38.8	1505.44	<u>$\Sigma x = 1164.3$</u>				34.8	1211.04	39.0	1521.00	40.2	1616.04
<u>42.8</u>	1831.84	<u>N=31</u>				<u>42.2</u>	1780.84	38.8	1505.44	40.8	1664.64
<u>37.3</u>	1391.29	<u>37.0</u>	1369.00			40.2	1616.04	37.2	1383.84	42.3	1772.29
31.9	1017.61	38.0	1444.00			44.6	1989.16	40.3	1624.09	40.4	1600.96
<u>39.2</u>	1536.64	33.6	1128.96			38.1	1451.61	38.8	1505.44	40.6	1600.96
39.2	1536.64	25.2	635.04			<u>36.8</u>	1354.24	37.0	1369.00		<u>N=30</u>
37.8	1428.84	27.2	739.84			36.8	1354.24	<u>31.8</u>	1011.24		$\Sigma x = 2462.5$
<u>39.2</u>	1536.64	35.0	1225.00			34.6	1197.16	<u>$\Sigma x = 1390.3$</u>			$\Sigma x^2 = 9777.05$
35.2	1239.04	39.6	1568.16			34.6	1197.16	<u>N=36</u>			$\bar{x} = 33.244$
38.2	1459.24	37.6	1413.76			35.5	1260.25	<u>$\Sigma x^2 = 53,158.45$</u>			$\bar{x}^2 = 33.551$
36.4	1324.96	37.6	1413.76			40.5	1640.25				7.88
43.8	1918.44	37.0	1369.00			46.3	1705.69	39.6	1568.16		$S.E. = \sqrt{1.121}$
38.6	1489.96	37.2	1383.84			37.1	1376.41	39.0	1521.00		$S.E. = 1.162$
37.5	1406.25	36.8	1354.24			41.0	1681.00	38.4	1473.76		$S.E. = 2.587$
37.8	1428.84	37.0	1369.00			38.1	1451.61	38.0	1473.76		$S.E. = 2.587$
35.2	1239.04	34.4	1183.36			36.4	1324.96	38.0	1473.76		$S.E. = 2.587$
<u>34.0</u>	1156.00	32.4	1049.76			34.1	1162.81	38.4	1473.76		$S.E. = 2.587$
35.4	1253.16	26.8	718.24			39.0	1521.00	38.4	1473.76		$S.E. = 2.587$
32.7	1069.29	33.6	1128.96			<u>42.8</u>	1831.84	40.3	1600.00		
36.0	1296.00	30.6	936.36			42.4	1797.76	39.7	1521.00		
36.5	1332.25	<u>33.0</u>	1089.00			42.6	1814.76	40.3	1600.00		
36.0	1296.00	<u>$\Sigma x = 1813.9$</u>				41.1	1689.21	43.4	1600.00		
36.0	1296.00	<u>N=50</u>				41.0	1681.00	43.4	1600.00		
38.5	1482.25	<u>$\Sigma x^2 = 61,441.51$</u>				40.0	1600.00	38.0	1473.76		
37.6	1413.76	<u>$\bar{x} = 36.27$</u>									
39.6	1568.16	<u>$(\bar{x})^2 = 1315.51$</u>				41.6	1730.56				
<u>39.8</u>	1584.04	<u>$\Sigma x = 12.59$</u>									
39.9	1592.01	<u>$\Sigma x = 1.272$</u>				45.4	1800.00				
<u>39.0</u>	1521.00	<u>$\Sigma x = 0.522$</u>				40.8	1664.64	41.0	1600.00		



Uma notata Temps.

(By Month)

July

	X	X^2	X	X^2	X	X^2	
42.4	1797.76	39.9	1592.01	$\Sigma X = 2376.1$			
43.8	1918.44	41.2	1697.44	N = 60			
42.0	1764.00	41.2	1697.44	$\Sigma X^2 = 1482.25$			
34.4	1183.36	42.4	1797.76	$\bar{X} = 37.00$			
43.6	1900.96	41.0	1681.00	$\bar{X}^2 = 1536.16$			
39.4	1552.36	41.0	1681.00	$S^2 = 10.76$			
38.8	1505.44	38.8	1505.44	$S = 1.79$			
41.8	1747.24	39.0	1521.00	$= .423$			
39.4	1552.36	31.0	961.00	$S = 1.8$			
36.2	1310.44	44.4	1971.36	$S = 6.6$			
41.1	1689.21	42.8	1831.84	$S = 4.6 - 3.9$			
40.7	1656.49	42.0	1764.00				
40.4	1632.16	40.2	1616.04				
39.2	1536.64	39.6	1568.16				
38.5	1482.25	45.6	2079.36				
37.9	1436.41	42.4	1797.76				
38.4	1474.56	40.6	1648.36				
38.2	1459.24	36.0	1296.00				
37.0	1369.00	44.8	2007.04				
36.7	1346.89	43.0	1849.00				
36.8	1354.24	41.2	1697.44				
36.0	1296.00	41.0	1681.00				
33.0	1089.00	41.2	1697.44				
34.2	1169.64	42.0	1764.00				
37.6	1413.76	30.0	900.00				
42.9	1840.41	42.8	1831.84				
43.4	1883.56	40.0	1600.00				
35.0	1225.00	41.0	1681.00				
35.9	1288.81	38.4	1474.56				
37.5	1406.25	39.4	1552.36				

Aug

	X	X^2	X	X^2	X	X^2	
41.0	1681.00	36.4	1312.96	38.8	1505.44		
43.3	1824.89	36.2	1310.44	34.0	1156.00		
42.4	1797.76	40.5	1640.25	39.4	1552.36		
36.5	1332.25	42.0	1764.00	35.0	1225.00		
40.0	1600.00	39.1	1528.81	43.4	1883.56		
36.5	1332.25	44.4	1971.36	42.6	1814.26		
30.5	930.25	40.5	1640.25	41.2	1697.44		
40.2	1616.04	40.2	1616.04	41.2	1697.44		
37.4	1398.76	36.2	1310.44	43.2	1566.24		
44.2	1953.64	42.2	1780.84	43.6	1900.96		
34.4	1183.36	41.5	1722.25	38.0	1444.00		
43.0	1849.00	38.8	1505.44	38.6	1489.96		
41.5	1722.25	38.6	1489.96	40.6	1648.36		
36.8	1354.24	39.0	1521.00	43.4	1883.56		
34.6	1197.16	39.8	1584.04	41.0	1681.00		
29.8	888.04	34.6	1197.16	$\Sigma X = 2971.8$			
42.8	1831.84	41.2	1697.44	$N = 75$			
44.7	1998.09	43.0	1849.00	38.8	1505.44		
35.6	1267.36	41.9	1755.61	$N = 76$			
36.8	1354.24	34.0	1156.00	$\Sigma X = 3010.6$			
38.6	1489.96	39.2	1536.64	$\Sigma X = 1400.77.42$			
38.2	1459.24	36.0	1296.00	$\bar{X} = 37.11$			
40.6	1648.36	42.8	1831.84	$\bar{X}^2 = 1534.95$			
36.8	1354.24	43.4	1683.56	$\bar{X} = 41.16$			
45.3	2052.09	42.8	1831.84	$\Sigma X = 11.147$			
42.8	1831.84	43.4	1883.56	$\Sigma X = 11.147$			
39.0	1521.00	41.4	1713.96	$\Sigma X = 11.147$			
35.7	1274.49	41.2	1697.44	$\Sigma X = 11.147$			
43.5	1892.25	39.8	1584.04	$\Sigma X = 11.147$			
37.2	1383.84	38.0	1444.00	$\Sigma X = 11.147$			

Uma notata Temp
(By Month)

Sept

X	X ²	X	X ²	X	X ²
37.6	1413.76	39.9	1592.01	38.0	1444.00
39.9	1672.81	39.6	1568.16	37.0	1369.00
41.3	1705.69	41.6	1730.56	37.4	1398.76
43.7	1909.69	41.0	1681.00	37.4	1398.76
44.8	2002.04	42.0	1764.00	41.6	1730.56
41.5	1722.25	36.6	1339.56	$\Sigma X = 2538.9$	
43.0	1849.00	36.5	1332.25	N = 65	
43.4	1883.56	38.0	1444.00	$\Sigma X^2 = 94 \dots 99$	
42.3	1789.29	36.8	1354.24	$\bar{X} = 39.06$	
41.6	1730.56	36.0	1296.00	$(\bar{X})^2 = 1521.68$	
40.6	1648.36	36.6	1339.56	$S^2 = 7.37$	
38.4	1474.56	36.0	1296.00	$\Sigma X = 1113$	
39.6	1568.16	29.0	841.00	$= .336$	
37.9	1436.41	39.8	1584.04	\dots	
37.4	1398.76	42.0	1764.00	\dots	
33.0	1089.00	40.8	1664.64	\dots	
34.0	1156.00	40.8	1664.64	\dots	
35.8	1281.64	37.4	1398.76	\dots	
40.5	1640.25	40.4	1632.16	\dots	
37.8	1428.84	41.0	1681.00	\dots	
36.1	1303.21	40.0	1600.00	\dots	
32.5	1406.25	37.8	1428.84	\dots	
32.7	1421.29	42.0	1764.00	\dots	
37.7	1421.29	43.0	1849.00	\dots	
39.5	1560.25	41.0	1681.00	\dots	
38.6	1489.96	38.0	1444.00	\dots	
39.2	1536.64	38.0	1444.00	\dots	
38.6	1489.96	38.4	1474.56	\dots	
39.6	1568.16	36.8	1354.24	\dots	
39.7	1576.09	41.4	1713.96	\dots	

Oct

X	X ²	X	X ²	X	X ²
28.8	829.44	41.0	1681.00	42.4	1799.96
41.0	1681.00	39.3	1544.49	40.0	1600.00
41.2	1697.44	39.0	1521.00	40.0	1600.00
43.2	1866.24	40.0	1600.00	40.2	1616.04
39.2	1536.64	45.4	2061.16	39.4	1552.36
39.0	1521.00	41.6	1730.56	37.4	1398.76
39.2	1536.64	42.6	1814.76	41.6	1730.56
40.6	1648.36	39.0	1521.00	30.0	900.00
41.6	1730.56	40.9	1671.81	37.6	1413.76
39.4	1552.36	40.0	1600.00	$\Sigma X = 2658.5$	
39.0	1521.00	39.2	1536.64	N = 68	
44.0	1936.00	24.8	615.04	$\Sigma X^2 = 104702.45$	
37.0	1369.00	36.4	1324.96	$\bar{X} = 39.09$	
40.6	1648.36	37.2	1383.84	$\bar{X}^2 = 1528.02$	
43.0	1849.00	35.6	1267.36	$\bar{X} = 41.4$	
39.2	1536.64	37.8	1428.84	$\bar{X} = 40.75$	
39.5	1560.25	42.4	1777.76	$\bar{X} = 41.8$	
40.2	1616.04	41.0	1681.00	$\bar{X} = 41.5$	
39.3	1544.49	35.7	1274.49	$\bar{X} = 40.5$	
38.2	1459.24	35.5	1260.25	$\bar{X} = 40.3$	
41.6	1730.56	40.6	1648.36	$\bar{X} = 41.3$	
35.6	1267.36	35.4	1253.16	$\bar{X} = 40.2$	
34.3	1176.49	36.2	1310.44	$\bar{X} = 40.0$	
39.6	1568.16	40.3	1624.09	$\bar{X} = 40.9$	
41.0	1681.00	36.4	1324.96	$\bar{X} = 40.7$	
38.4	1474.56	35.8	1281.64	$\bar{X} = 40.5$	
42.2	1780.84	39.0	1521.00	$\bar{X} = 41.2$	
40.4	1632.16	39.0	1521.00	$\bar{X} = 40.7$	
37.0	1369.00	42.8	1831.84	$\bar{X} = 41.3$	
41.3	1705.69	43.0	1849.00	$\bar{X} = 41.6$	

Uma notata Temp-

(By Month)

Nov

X	X^2
32.7	1069.29
31.8	1011.24
34.5	1190.25
31.4	985.96
35.0	1225.00
36.9	1361.61
36.5	1332.25
34.2	1169.64
<u>28.2</u>	795.24
39.1	1528.81
37.2	1383.84
<u>33.1</u>	<u>1095.61</u>

$\Sigma X = 410.6$

$N = 12$

$\Sigma X^2 = 14,148.74$

$\bar{X} = 34.21$

$(\bar{X})^2 = 1170.32$

$s^2 = 954$

$s = \sqrt{79.5}$

$= 8.92$

$2 \cdot S = 1.8$

$25.2 - 39.1$

Total1958-1963

$\Sigma X = 17516.1$

$N = 462$

$\bar{X} = 37.9$

$N = 492$

$\Sigma X = 18720.9$

$\bar{X} = 38.05$

$(\bar{X})^2 = 1447.80$

$\Sigma X^2 = 780,600.25$

$s^2 = 12,77$

$s = \sqrt{107.4}$

$= 18.9$

410.6

12.77



Uma notata Temp

(By Sex)

07

X	X^2	X	X^2										
31.6	998.56	39.1	1528.81	39.6	1562.16	29.9	894.01	38.2	1459.24	41.2	1697.44		
23.1	533.61	39.2	1536.64	39.7	1576.09	23.7	561.69	36.4	1324.96	42.4	1797.76		
29.4	864.36	38.5	1482.25	39.6	1568.16	35.0	1225.00	43.8	1918.44	41.0	1681.00		
30.1	906.01	37.0	1369.00	41.6	1730.56	37.2	1383.84	38.6	1489.96	41.5	1722.25		
41.0	1681.00	36.8	1354.24	41.0	1681.00	28.2	795.24	37.8	1428.84	38.6	1489.96		
43.3	1874.89	36.0	1296.00	42.0	1764.00	32.1	1030.41	34.0	1156.00	39.0	1521.00		
42.4	1797.76	37.6	1413.76	34.3	1176.49	34.5	40.5	35.4	1253.16	39.8	1584.04		
36.5	1332.25	34.4	1163.36	41.0	1686.00	34.9	43.0	32.7	1069.29	41.2	1692.44		
40.0	1600.00	43.0	1849.00	38.4	1494.56	38.9	1513.21	36.0	1296.00	41.9	1755.61		
36.5	1339.56	34.6	1197.16	42.2	1780.84	44.4	1971.36	36.0	1296.00	36.5	1332.25		
35.8	1281.64	29.8	888.04	40.4	1632.16	40.2	1616.04	36.0	1296.00	36.8	1354.24		
38.8	1505.44	36.8	1354.24	41.0	1681.00	36.2	1310.44	38.5	1482.25	36.0	1296.00		
37.3	1391.29	45.3	2052.09	39.3	1544.49	36.5	1332.25	37.6	1413.76	36.6	1339.56		
35.4	1253.16	42.8	1831.84	39.0	1521.00	39.7	1576.09	39.8	1584.04	36.0	1296.00		
40.2	1616.04	39.0	1521.00	45.4	2061.16	40.2	1616.04	39.0	1521.00	24.8	61504		
28.8	829.44	43.5	1892.25	41.6	1730.56	36.8	1354.24	36.8	1354.24	35.7	1274.49		
41.0	1681.00	37.2	1383.84	42.6	1814.76	36.6	1339.56	34.6	1197.16	37.2	1383.84		
41.2	1697.44	36.4	1324.96	40.9	1672.81	37.0	1369.00	34.6	1197.16	37.8	1428.84		
41.6	1730.56	36.2	1310.44	31.8	1011.24	38.0	1444.00	41.0	1681.00	41.0	1681.00		
39.4	1552.36	40.5	1640.25	34.5	1190.25	40.6	1648.36	36.4	1324.96	40.6	1648.36		
40.6	1648.36	42.0	1764.00	31.4	985.96	40.6	1648.36	34.1	1162.81	35.4	1253.16		
43.0	1849.00	40.9	1672.81	35.0	1225.00	43.6	1900.96	39.0	1521.00	36.2	1310.44		
39.5	1560.25	43.4	1883.56	36.9	1361.61	44.2	1953.64	42.4	1797.76	40.6	1648.36		
39.2	1169.64	40.6	1648.36	39.1	1528.81	36.4	1324.96	42.6	1814.76	41.6	1730.56		
44.6	1989.16	38.4	1474.56	37.2	1383.84	34.1	1162.81	41.1	1689.21	43.6	1900.96		
42.4	1797.76	37.4	1398.76	28.3	800.89	37.4	1398.76	41.0	1681.00	33.5	1122.25		
43.8	1918.44	35.8	1281.64	28.1	789.61	31.9	1017.61	35.0	1225.00	38.6	1489.96		
39.4	1552.36	37.7	1421.29	23.6	556.96	39.2	1536.64	35.9	1288.81	38.8	1505.44		
38.8	1505.44	39.5	1560.25	32.7	1069.29	39.2	1536.64	37.5	1406.25	31.0	961.00		
39.0	1521.00	38.6	1489.96	30.4	924.16	39.2	1536.64	41.2	1692.44	34.0	1156.00		



Uma nota TEMPS
(BY SEX)

♂

x	x^2										
29.0	841.00	39.0	1521.00	32.4	1049.76	33.0	1089.00	38.8	1505.44	38.8	1505.44
39.0	1521.00	39.4	1552.36	41.2	1697.44	41.6	1730.56	41.2	1697.44	36.6	1339.56
40.0	1600.00	43.4	1883.56	38.8	1505.44	40.0	1600.00	41.6	1697.44	36.6	1339.56
40.0	1600.00	41.6	1697.44	38.8	1505.44	39.4	1552.36	41.2	1697.44	40.0	1600.00
39.4	1552.36	41.2	1697.44	40.0	1600.00	41.6	1730.56	41.2	1697.44	36.6	1339.56
41.6	1730.56	41.2	1697.44	38.6	1489.96	30.0	900.00	40.0	1600.00	38.0	1369.00
30.0	900.00	40.0	1600.00	38.6	1489.96	37.0	1369.00	38.0	1444.00	37.0	1369.00
40.0	1600.00	38.6	1489.96	38.4	1428.84	41.4	1713.96	40.0	1600.00	38.4	1428.84
38.4	1428.84	41.4	1713.96	40.0	1600.00	37.8	1369.00	41.2	1697.44	40.0	1600.00
41.2	1697.44	41.0	1681.00	39.7	1576.09	42.0	1764.00	42.0	1764.00	39.0	1521.00
40.6	1648.36	40.0	1600.00	43.4	1883.56	41.2	1697.44	37.4	1398.76	39.2	1536.64
36.0	1296.00	37.8	1428.84	40.4	1600.00	41.6	1730.56	37.4	1398.76	37.0	1369.00
43.0	1849.00	42.0	1764.00	37.0	1369.00	41.2	1697.44	41.6	1730.56	42.0	1764.00
41.2	1697.44	41.6	1730.56	37.4	1398.76	42.0	1764.00	37.4	1398.76	37.0	1369.00
41.2	1697.44	37.4	1398.76	40.0	1600.00	41.0	1681.00	37.0	1369.00	42.8	1831.84
42.0	1764.00	37.4	1398.76	38.4	1428.84	43.0	1849.00	37.0	1369.00	39.4	1552.36
30.0	900.00	37.0	1369.00	41.2	1697.44	41.4	1713.96	40.0	1600.00	37.8	1369.00
42.8	1831.84	41.4	1713.96	40.0	1600.00	42.0	1764.00	40.0	1600.00	38.4	1428.84
40.0	1600.00	38.0	1444.00	41.2	1697.44	40.0	1600.00	41.0	1681.00	38.8	1505.44
41.0	1681.00	41.0	1681.00	38.4	1428.84	43.0	1849.00	37.0	1369.00	39.2	1536.64
38.4	1428.84	43.0	1849.00	39.4	1552.36	33.1	1095.61	40.0	1600.00	37.0	1369.00
39.2	1536.64	39.0	1521.00	36.0	1296.00	42.0	1764.00	40.0	1600.00	37.6	1413.76
36.0	1296.00	42.0	1764.00	41.2	1697.44	40.0	1600.00	38.8	1505.44	37.2	1383.84
41.2	1697.44	40.0	1600.00	38.8	1505.44	37.0	1369.00	37.6	1413.76	37.0	1369.00
38.8	1505.44	38.6	1489.96	34.0	1156.00	37.6	1413.76	37.0	1369.00	37.2	1383.84
34.0	1156.00	37.6	1413.76	37.2	1383.84	37.0	1369.00	37.6	1413.76	37.0	1369.00

$$\Sigma x = 9214.0$$

$$N = 242$$

$$\bar{x} = 38.0$$

$$N = 246$$

$$\Sigma x = 9372.9$$

$$\Sigma x^2 = 361,086.18$$

$$N = 242$$

$$\Sigma x = 9214.0$$

$$\Sigma x^2 = 361,086.18$$

$$\bar{x} = 38.0$$

$$\sigma_x = \sqrt{0.027}$$

$$= 0.259$$

$$= 3.1 - 11.3$$

Uma notata Temp.

$(B_2 - cx)$

女



Uma notata Temps
 (By Sex)

♀

<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>	<u>X</u>	<u>X²</u>
40.2	1614.04	40.3	1624.09					40.0	1600.00		
42.6	1814.76	37.0	1369.00					40.8	1664.64		
39.6	1568.16	31.8	1011.24					37.0	1369.00		
39.6	1568.16							<u>35.4</u>	<u>1259.16</u>		
39.4	1532.36							<u>N = 218</u>			
36.4	1324.96							<u>$\sum X = 8,269.4$</u>			
39.2	1536.64					$\Sigma X = 8084.4$		$\sum X^2 = 316,917.34$			
36.2	1310.44					$N = 213$					
39.0	1521.00					$\bar{X} = 37.9$					
39.6	1568.16	39.6	1568.16					39.0	1521.00		
37.6	1413.76							38.4	1474.56		
37.0	1369.00							38.0	1444.00		
36.8	1354.24							38.4	1479.36		
34.4	1183.36							40.3	1621.09		
26.8	718.24							40.3	1624.96		
33.6	1128.96							43.4	1811.56		
30.6	936.36							43.4	1811.56		
37.0	1369.00							38.0	1444.00		
38.0	1444.00							41.6	1710.24		
33.6	1128.96							41.0	1676.00		
25.2	635.04							42.2	1784.44		
27.2	739.84							40.2	1614.04		
35.0	1225.00							40.8	1664.64		
40.8	1664.64							42.3	1784.44		
39.0	1521.00							<u>40.6</u>	<u>1664.64</u>		
40.0	1600.00										
36.6	1339.56										
39.0	1521.00										
38.8	1505.44										
37.2	1383.84										

$$\begin{aligned}
 & S_{xx} = \frac{1}{N-2} \sum (X - \bar{X})^2 \\
 & = \frac{1}{235-2} \sum (X - 37.9)^2 \\
 & = \frac{1}{233} \sum X^2 - \bar{X}^2 \\
 & = \frac{1}{233} (316,917.34) - (37.9)^2 \\
 & = 1,367.57
 \end{aligned}$$

Uma notata Temp-(B Y A C)Adult

♂ = > 80+ mm

♀ = > 70+ ..

X	X ²	X	X ⁻										
41.0	1681.00	40.5	1640.25	34.5	1190.25	36.4	1324.96	36.4	1324.96	36.4	1324.96	36.4	1324.96
43.3	1874.89	42.0	1764.00	32.4	1049.76	43.8	1918.44	34.1	1162.81	37.2	1383.84		
42.4	1797.76	41.3	1705.69	33.6	1128.96	38.6	1489.96	39.0	1521.00	35.6	1267.36		
35.8	1281.64	43.7	1909.69	38.9	1513.21	32.5	1406.25	42.8	1831.84	37.8	1428.84		
38.8	1505.44	41.5	1722.25	44.4	1971.36	37.8	1428.84	42.4	1797.76	41.0	1681.00		
42.2	1780.84	42.3	1789.29	40.5	1640.25	35.2	1239.04	41.1	1689.21	35.7	1274.49		
40.2	1616.04	40.6	1648.36	40.2	1616.04	34.0	1156.00	41.0	1681.00	35.5	1260.25		
39.2	1536.64	37.9	1436.41	36.2	1310.44	35.4	1253.16	42.9	1840.41	40.6	1648.36		
39.5	1560.25	37.4	1398.76	32.6	1062.76	32.7	1069.29	43.4	1883.56	35.4	1253.16		
39.3	1544.49	40.5	1640.25	43.0	1849.00	36.0	1296.00	35.9	1288.81	36.2	1310.44		
38.2	1459.24	36.1	1303.21	39.7	1576.09	36.5	1332.25	37.5	1406.25	41.3	1624.09		
39.1	1528.81	37.7	1421.29	40.2	1616.04	36.0	1296.00	39.9	1592.01	36.4	1324.96		
36.2	1310.44	38.6	1489.96	36.6	1339.56	36.0	1296.00	41.2	1692.44	35.8	1281.64		
40.7	1656.49	39.6	1568.16	32.6	1413.76	38.5	1482.25	41.2	1692.44	25.0	625.00		
40.4	1632.16	41.6	1730.56	40.5	1640.25	37.6	1413.76	42.4	1797.76	35.0	1225.00		
37.9	1436.41	42.0	1764.00	40.6	1648.36	39.6	1568.16	41.5	1722.25	40.6	1648.36		
38.4	1474.56	39.6	1568.16	41.6	1730.56	39.8	1584.04	38.8	1505.44	39.6	1568.16		
36.8	1354.24	41.0	1681.00	40.6	1648.36	39.9	1592.01	38.6	1489.96	41.6	1730.56		
36.0	1296.00	40.0	1600.00	43.6	1900.96	39.0	1521.00	34.6	1197.16	33.5	1122.25		
37.6	1413.76	32.7	1069.29	44.2	1953.64	38.1	1451.61	41.2	1692.44	38.6	1489.96		
41.5	1722.25	28.2	795.24	36.4	1324.96	36.8	1354.24	39.4	1552.36	38.8	1505.44		
36.8	1354.24	37.2	1383.84	38.4	1474.56	36.8	1354.24	39.4	1552.36	39.0	1521.00		
34.6	1197.16	28.3	800.89	34.1	1162.81	34.6	1197.16	43.0	1849.00	31.0	961.00		
29.8	888.04	19.0	361.00	37.4	1398.76	34.6	1197.16	41.9	1255.61	34.0	1156.00		
42.8	1831.84	28.1	789.61	31.9	1017.61	35.5	1260.25	36.6	1339.56	29.0	841.00		
44.7	1998.09	30.4	924.16	39.2	1536.64	40.5	1640.25	36.5	1332.25	39.0	1521.00		
35.6	1267.36	35.0	1225.00	39.2	1536.64	41.3	1705.69	36.8	1354.24	39.0	1521.00		
36.8	1354.24	37.2	1383.84	39.2	1536.64	37.1	1376.41	36.0	1296.00	42.8	1531.84		
35.7	1274.49	27.3	745.29	35.2	1239.04	41.0	1681.00	36.6	1339.56	43.0	1849.00		
43.5	1892.25	32.1	1030.41	38.2	1459.24	38.1	1451.61	24.8	615.04	42.4	1797.76		



Uma NOTATA Temps
(BY AGE)

ADULT

x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
40.0	1600.00	40.0	1600	37.0	1369.00								
40.2	1616.04	41.0	1681.00	30.6	936.36								
39.4	1552.36	38.4	1474.56	33.0	1089.00								
37.4	1398.76	39.4	1552.36	38.8	1664.64								
41.6	1730.56	43.4	1883.56	40.0	1600.00								
30.0	900.00	41.4	1713.96	36.6	1339.56								
39.0	1521.00	41.2	1692.44	39.0	1521.00								
39.0	1369.00	43.2	1866.24	38.8	1505.44								
40.0	1600.00	43.6	1900.96	31.8	1011.24								
44.4	1971.36	38.0	1444.00	38.8	1505.44								
42.8	1831.84	38.6	1489.96										
42.0	1764.00	40.6	1648.36										
40.2	1616.04	43.4	1883.56										
39.6	1568.16	41.0	1681.00	39.6	1568.16								
45.6	2079.36	39.8	1584.04	39.0	1521.00								
42.4	1792.76	42.0	1764.00	38.4	1444.00								
40.6	1648.36	40.8	1664.64	38.0	1444.00								
36.0	1296.00	40.8	1664.64	38.0	1444.00								
44.8	2007.04	37.4	1398.76	38.4	1474.56								
43.0	1849.00	40.4	1632.16	38.4	1474.56								
41.2	1697.44	41.0	1681.00	40.3	1600.00								
41.0	1681.00	40.0	1600.00	39.7	1521.00								
41.2	1697.44	42.6	1814.76	40.3	1600.00								
42.0	1764.00	36.2	1310.44	43.4	1764.00								
30.0	900.00	38.6	1489.96	38.0	1444.00								
42.8	1831.84	25.2	635.04	41.0	1600.00								
39.2	1536.64	27.2	739.84	43.4	1764.00								
36.0	1296.00	39.6	1568.16	40.2	1600.00								
42.8	1831.84	37.0	1369.00	40.8	1600.00								
43.4	1883.56	37.2	1383.84	42.3	1764.00								
42.8	1831.84	36.8	1354.24	40.4	1600.00								

$$\Sigma x = 9597.1$$

$$N = 250$$

$$\bar{x} = 38.3$$

$$n = 252$$

$$\Sigma x = 9667.7$$

$$\Sigma x^2 = 373,804.07$$

$$N = 270$$

$$\Sigma x = N \cdot \bar{x} = 270 \cdot 38.3$$

$$\Sigma x^2 = 432,140.07$$

$$\bar{x} = 38.3$$

$$\bar{x}^2 = 1470.49$$

$$\sigma^2 = 11.36$$

$$\sigma = \sqrt{11.36} = 3.37$$

$$= .805$$

Uma notata Temp- $\sigma = 51$ $T_0 = 71$ mm(B) A_{±c}) $\tau = 51$ $T_0 = 67$..Immature

X	X	X	X	X	X	X	X	X	X	X	X	X	X
32.6	1413.76	39.4	1552.36	39.6	1568.16	39.2	1536.64	36.8	1354.24	41.6	1730.56		
24.6	605.16	38.8	1505.44	33.0	1089.00	31.8	1011.24	37.0	1369.00	37.4	1398.76		
26.9	723.64	41.8	1747.24	35.8	1281.64	34.5	1190.25	38.0	1444.00	37.0	1369.00		
29.4	864.36	41.1	1689.21	34.0	1156.00	31.4	985.96	32.6	1062.76	41.4	1713.96		
36.8	1354.24	39.0	1521.00	37.8	1428.84	35.0	1225.00	41.8	1747.22	36.8	1354.24		
32.2	1036.84	39.2	1536.64	37.5	1406.25	36.9	1360.61	31.8	1012.24	38.4	1474.56		
30.1	906.01	38.5	1482.25	37.7	1421.29	36.5	1332.25	38.0	1444.00	38.0	1444.00		
36.5	1332.25	38.2	1459.24	39.5	1560.25	34.2	1169.64	37.8	1428.84	38.0	1444.00		
40.0	1600.00	37.0	1369.00	38.6	1489.96	39.1	1528.81	42.6	1814.76	41.0	1681.00		
30.5	930.25	36.7	1346.89	39.2	1536.64	32.3	1043.29	35.0	1225.00	43.0	1849.00		
40.2	1616.04	33.0	1089.00	39.6	1568.16	31.1	961.21	41.0	1681.00	20.6	424.36		
37.4	1398.76	34.2	1169.64	39.7	1576.09	34.2	1169.64	41.0	1681.00	40.2	1616.04		
44.2	1953.64	34.4	1183.36	39.9	1592.01	23.6	556.96	39.0	1521.00	39.0	1521.00		
42.8	1831.84	43.0	1849.00	41.0	1681.00	32.7	1069.29	39.8	1584.04	42.0	1764.00		
37.3	1391.29	38.6	1489.96	35.6	1267.36	29.9	894.01	38.0	1444.00	39.6	1508.16		
35.4	1253.16	38.2	1459.24	34.3	1176.49	30.2	912.04	36.0	1296.00	39.6	1508.14		
34.8	1211.04	40.6	1648.36	38.4	1474.56	22.6	510.76	42.4	1792.76	39.4	1532.36		
28.8	829.44	36.8	1354.24	42.2	1780.84	23.7	561.69	37.2	1383.84	36.4	1324.96		
43.2	1866.24	45.3	2052.09	40.4	1632.16	28.2	795.24	43.6	1900.96	40.0	1600.00		
44.0	1936.00	42.8	1831.84	37.0	1369.00	30.0	900.00	41.5	1722.25	39.2	1538.64		
37.0	1369.00	39.0	1521.00	41.3	1705.69	40.1	1608.01	40.0	1600.00	39.0	1521.00		
40.6	1648.36	37.2	1383.84	41.0	1681.00	39.4	1552.36	41.2	1692.44	37.0	1369.00		
43.0	1849.00	36.4	1324.96	39.3	1544.49	38.0	1444.00	39.8	1584.04	38.0	1444.00		
40.2	1616.04	36.2	1310.44	39.0	1521.00	35.2	1239.04	38.0	1444.00	33.6	1128.96		
41.6	1730.56	40.9	1672.81	40.0	1600.00	39.7	1576.09	38.8	1505.44	35.0	1225.00		
34.2	1169.64	44.8	2007.04	45.4	2061.16	42.2	1780.84	39.4	1552.36	37.6	1413.76		
44.6	1989.16	43.0	1849.00	41.6	1730.56	40.4	1632.16	35.0	1225.00	37.6	1413.76		
42.4	1797.76	43.4	1883.56	42.6	1814.76	37.2	1383.84	43.4	1883.56	34.4	1183.36		
43.8	1918.44	41.6	1730.56	39.0	1521.00	36.5	1332.25	42.6	1814.76	32.4	1049.76		
43.6	1900.96	38.4	1474.56	40.9	1672.81	39.8	1584.04	41.2	1697.44	26.8	718.14		

Uma notata Temps.
 (By Age)
Immature

S-V
 $\sigma^2 = 51$ to 79 mm
 $\Omega = 51$ to 69 mm

x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
33.6	1128.96									40.0	1600.00
39.0	1521.00									40.8	1664.64
37.2	1383.84									37.0	1369.00
40.3	1624.09									36.6	1339.56
38.8	1505.44									35.4	1292.16
<u>37.0</u>	<u>1369.00</u>										

$$\Sigma x = 7013.9$$

$$N = 186$$

$$\bar{x} = 37.7$$

$$N = 191$$

$$\Sigma x = 7203.7$$

$$\Sigma x^2 = 275,376.21$$

$$43.4 \quad 1883.56$$

$$41.6 \quad 1730.56$$

$$45.4 \quad 2061.16$$

$$42.2 \quad 1780.44$$

$$43.4 \quad 1943.56$$

$$40.6 \quad 1648.36$$

$$N = 197$$

$$\Sigma x = 7462.3$$

$$\Sigma x^2 = 286,364.25$$

$$\bar{x} = 37.86$$

$$(\bar{x})^2 = 1432.37$$

$$\Sigma x^2 = 26,36$$

$$5,83 = 5,103$$

$$= .821$$

Uma notata Imm. $\frac{S-V}{0-50} \text{ mm.}$

(B. A. G.)

Juvenile

x	x^2	x	x^-										
31.7	1004.89												
34.2	1169.64												
27.5	756.25												
31.6	998.56												
31.8	1011.24												
31.8	1011.24												
25.2	635.04												
23.1	533.61												
39.2	1536.64												
24.2	585.64												
38.9	1536.64												
36.5	1332.25												
41.0	1681.00												
41.2	1697.44												
40.6	1648.36												
39.0	1521.00												
41.6	1730.56												
39.4	1552.36												
39.0	1521.00												
34.4	1183.36												
34.0	1156.00												
37.8	1428.84												
42.0	1764.00												
37.4	1398.76												
38.0	1444.00												
33.1	1095.61												
37.6	1413.76												

$\Sigma x = 914.5$

$N = 26$

$\bar{x} = 35.1$

$\Sigma x^2 = 32,133.93$

$\bar{x}^2 = 1232.01$

$s^2 = 36.07$

$S.E. = \sqrt{1.31}$

$= 1.18$

Immature + juvenile

$\Sigma x = 7928.7 \quad 8118.2$

$N = 217$

~~$\bar{x} = 37.3 \quad 37.4$~~

$\Sigma x^2 = 308,310.14$

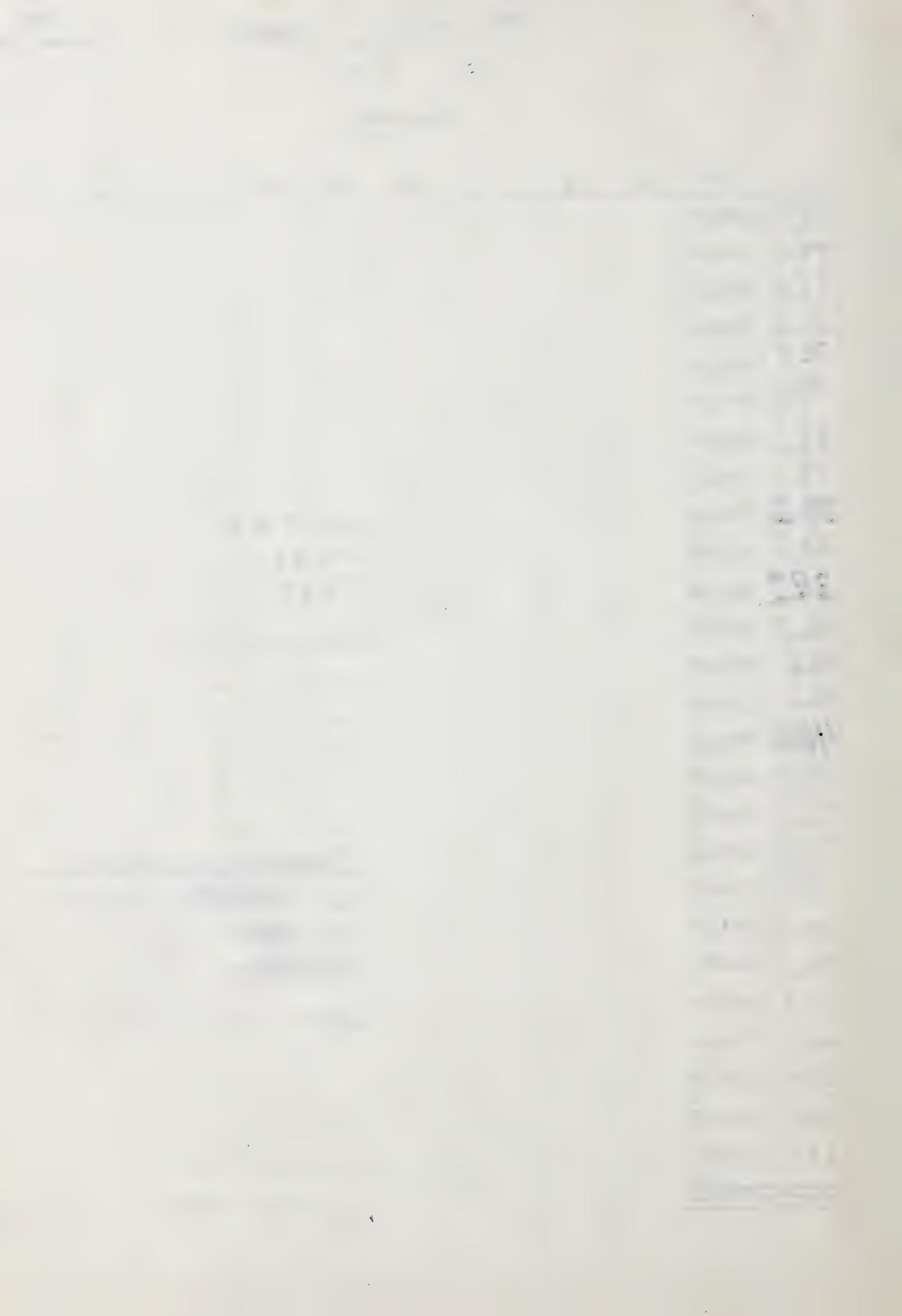
$N = 223$

$\Sigma x = 8324.8$

$\Sigma x^2 = 311218.18$

$\bar{x} = 37.55$

$(\bar{x})^2 = 1413.00$



Time Uma notata Are Active, B. Month(N = ~~2000~~)

Time	Jan	Feb	Mar	Apr	May	June	Jul	Aug	Sep	Oct	Nov	Dec
0500												
0530							I	II				
0600							I	III	III			
0630				I	THHIII			II	I			
0700					THHIII	I	III	THHHII	III	II		
0730			I		THHIII	THH	III	THHHII	III	II		
0800					THH	THH	III	THHHII	THHII	III		
0830					III	THH	THH	THHHII	THHII	THH		
0900					II	II	III	III	I	THHII	"	
0930					III	III	THHII	II	III	III	THHHII	"
1000	"				THHII	THH	THH	II	THHII	III	THHHII	II
1030	III				THHII	THHII	THHII	THHII	III	III	THHII	III
1100	II				THHII	THHII	THHII	THHII	I	II	THHII	III
1130	II				THHII	THH	III	THH		II	THH	THH
1200	III				THHII	THH	I	III			THHII	THH
1230	II				II	III		II			THH	THH
1300					III	II			I		THHII	II
1330					THH		III				THHII	III
1400					III	II	II				THHII	II
1430					III	II	II	THH			THHII	"
1500					II	I	III	III			II	THHII
1530					I	THHII		I			THH	THHII
1600					II	THHII		THHII			III	THHII
1630					I	THH	III	THHII	II		II	THHII
1700					II	THHII	THHII	THHHII	III		THHII	THHII
1730					I	III	III	THHII	THHII		THHII	THHII
1800					I	III	THH	THHII	THHII		THHII	THHII
1830					I	III	THH	THHII	THHII	II		
1900							II	III	II			
1930									I			
2000												
2030												

Uma notata Temperatures

Temp.(°C)

19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50

No. of Animals

Thru
4/65

1

2

3

5

5

6

6

16

15

20

13

41

34

55

65

59

73

69

61

39

39

11

7

1

Total

$$\bar{x} = 38.1^{\circ}\text{C}$$

$$S^2 = 16.1$$

$$N = 646$$

"No Chase"

Thru
4/65

1

1

2

2

2

3

4

4

3

6

7

4

8

11

6

15

13

6

7

5

$$N = 116$$

3 (No chase)



Uma
SCOPARIA

Uma
SCOPARIA

Uma scoparia Temps. (1959-1962)
 (0800 to 1700 - April thru August)

					<u>Temp(°C)</u>	<u>No.</u>	<u>%</u>
36.2	39.0	40.5	38.8	41.5	33	1	0
30.4	37.6	40.8	38.8	39.4	34	1	0
37.0	44.8	39.4	41.9	34.8	35	5	3
37.5	41.4	38.7	41.5	40.4	36	8	5
39.5	38.5	40.6	38.8	40.2	37	17	11
39.6	38.7	39.2	36.6	36.4	38	26	18
39.2	41.5	37.6	38.6	38.6	39	36	25
36.5	39.2	39.0	40.2	36.6	40	19	13
37.5	38.8	37.0	37.8	36.8	41	18	12
40.8	42.8	38.7	40.6	38.9	42	3	2
43.0	37.5	39.2	42.9	37.8	43	7	4
39.6	40.9	37.8	39.1	36.7	44	2	1
37.6	37.6	40.0	39.4	40.2			
38.0	39.8	39.2	<u>27.6</u>	39.4			
40.2	43.8	39.9	38.0	39.2			
35.8	35.6	41.9	38.6	40.5			
38.4	36.4	41.0	39.4	37.0			
37.0	<u>43.4</u>	38.1	35.0	37.9			
40.8	36.4	43.0	38.0	34.8			
38.8	38.4	39.9	43.6	39.2			
38.0	38.6	38.4	41.2	43.0			
32.8	38.3	41.2	42.0	36.2			
37.5	38.6	40.4	38.5	40.0			
38.5	39.7	41.6	39.9	<u>28.3</u>			
41.5	38.4	41.2	40.1	<u>27.0</u>			
39.0	36.6	39.2	42.6	37.4			
38.4	41.3	36.8	39.4	37.2			
38.4	34.6	39.4	39.8		N = 146 (143)		
35.0	37.9	38.2	39.4		$\Sigma X = 5653.5$		
34.0	39.4	37.1	40.8		$\bar{X} = 38.7$		

Vana SCORARIA TEMPS
 (BY MONTH)

FEBRUARY

x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
<u>25.8</u>	665.64										
29.2	852.64										
30.2	912.04										
<u>31.6</u>	998.56										
<u>32.5</u>	1056.25										
34.6	1197.16										
34.0	1156.00										
33.0	1089.00										
28.0	784.00										
31.8	1011.24										
28.6	817.96										
<u>35.0</u>	<u>1225.00</u>										

$$\Sigma x = 374.3$$

$$N = 12$$

$$\Sigma x^2 = 11,765.49$$

$$\bar{x} = 31.19$$

$$(\bar{x})^2 = 972.81$$

$$\sigma^2 = 8.34$$

$$\sigma = \sqrt{6.95}$$

$$\approx 2.64$$

Uma SCARIA TEMPS
(BY MONTH)
MARCH

Uma SCOPARIA TEMPS
 (BY MONTH)

APRIL

x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
40.6	1648.36	39.5	1568.25								
36.6	1339.56	39.6	1568.16								
37.5	1406.25	39.2	1536.64								
37.0	1369.00			$\Sigma x = 1274.4$							
28.3	800.89	N = 34									
27.0	729.00										
38.6	1489.96	38.6	1489.96								
38.3	1466.89	39.8	1584.04								
38.6	1489.96	39.6	1568.16								
39.7	1576.09	37.2	1383.84								
38.4	1474.56	38.2	1459.24								
36.6	1339.56	39.4	1552.36								
41.3	1705.69	38.0	1444.00								
34.6	1197.16	38.0	1444.00								
37.9	1436.41	35.2	1239.04								
39.4	1552.36	38.0	1444.00								
40.5	1640.25	35.2	1239.04								
40.8	1664.64	$\Sigma x = 1691.6$									
39.4	1552.36	N = 45									
38.7	1497.69										
40.6	1648.36										
27.6	761.76	37.8	1428.84								
38.0	1444.00	36.4	1324.96								
38.6	1489.96	37.4	1395.76								
39.4	1552.36			N = 47							
35.0	1225.00			$\Sigma x = 1803.2$							
38.0	1444.00			$\Sigma x^2 = 68,167.62$							
36.2	1310.44			$\bar{x} = 37.56$							
38.4	1474.56			$s^2 = 1410.75$							
37.0	1369.00			$s = 9.61$							
37.5	1406.25			$S.E. = .250 = .447$							

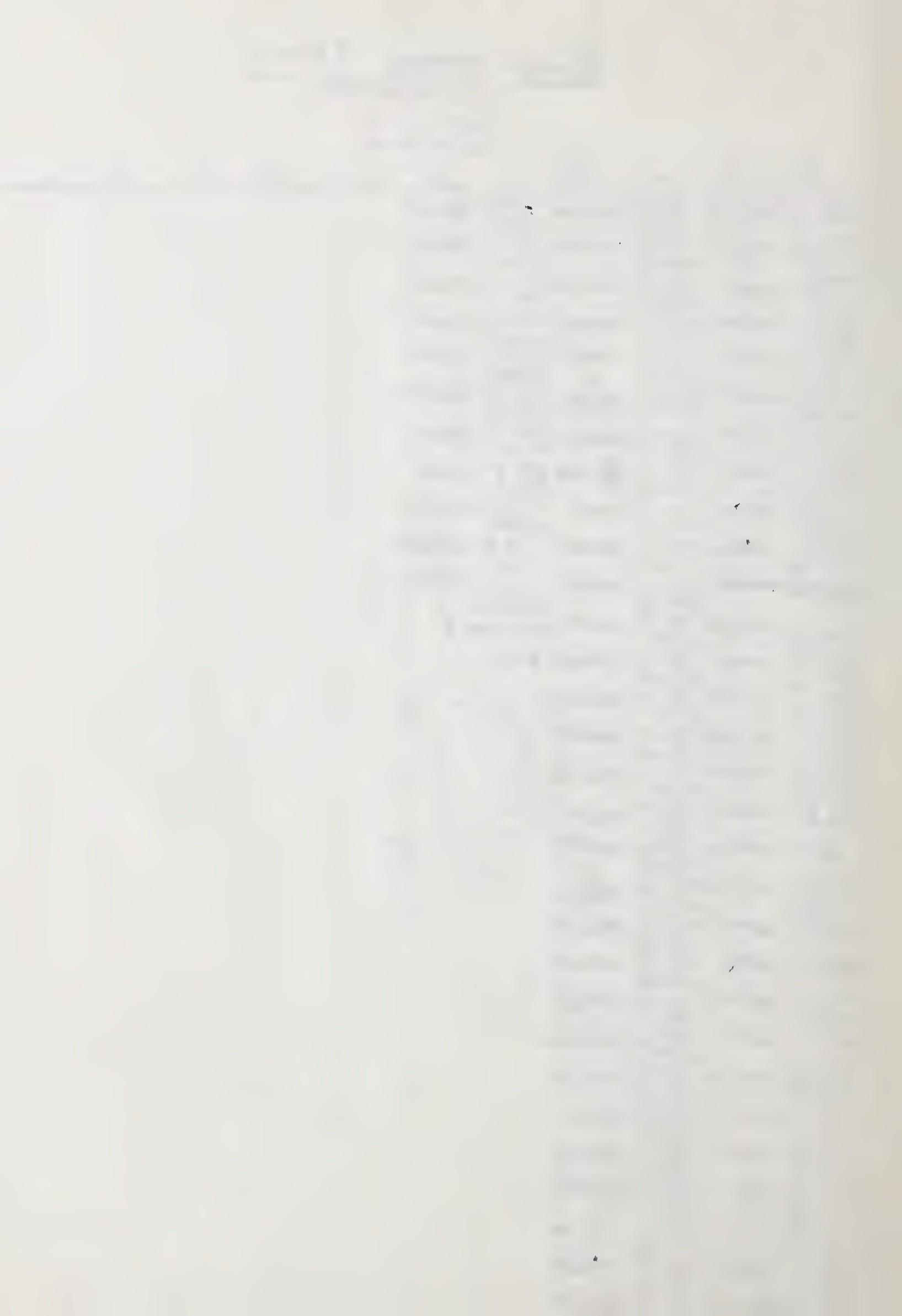
Uma scoraria TEMPS
(BY MONTH)
MAY

Uma scoparia TEMPS
(BY MONTH)

JUNE

Uma SCOPARIA TEMPS
 (BY MONTH)

JULY



Uma SCOPARIA TEMPS
(BY MONTH)
AUGUST

Vma scoparia TEMPS
(BY MONTH)

SEPTEMBER

	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
38.6	148996	40.4	1632.16									
37.2	1383.84	40.4	1632.16									
37.5	1406.25	38.0	1444.00									
37.5	1406.25	39.8	1584.04									
36.0	1296.00	42.0	1764.00									
36.3	1317.69	39.2	1536.64									
34.6	1197.16	37.0	1369.00									
35.1	1232.01	41.4	1713.96									
30.8	948.64	41.2	1697.44									
31.7	1004.89	39.0	1521.00									
31.0	961.00	37.0	1369.00									
31.6	998.56	38.6	1489.96									
32.3	10413.29	38.0	1444.00									
32.6	1062.76	40.0	1600.00									
32.4	1049.76	38.4	1474.56									
27.7	767.29	39.4	1532.36									
31.8	1011.24	37.0	1369.00									
31.8	1011.24	38.0	1444.00									
<u>38.8</u>	<u>1505.44</u>	<u>36.5</u>	<u>1332.25</u>									
$\Sigma x = 645.3$		<u>39.2</u>	<u>1536.64</u>									
$N = 19$		42.0	1764.00									

$$\Sigma x^2 = 22,093.27 \quad \underline{36.6} \quad 1339.56$$

$$\bar{x} = 33.76 \quad n = 19$$

$$\bar{x}^2 = 1153.28 \quad \Sigma x^2 = 1536.64$$

$$s^2 = 10.6 \quad \Sigma x^2 = 335.7 - 360 \\ s = \sqrt{10.6} \quad \bar{x} = 33.7$$

$$= 3.25 \quad (\bar{x})^2 = 1332.25$$

$$s^2 = 12.01$$

$$s = \sqrt{12.01}$$

$$= 3.47$$

Uma SCOPARIA TEMPS
(BY MONTH)

OCTOBER

Uma scoparia TEMPS
(BY MONTH)
NOVEMBER

x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
32.6	1062.76												

26.4 696.96

$$\Sigma x = 59.0$$

$$N = 2$$

$$\Sigma x^2 = 1759.72$$

$$\bar{x} = 29.50$$

$$(\bar{x})^2 = 872.25$$

Total

1959-1963

$$\Sigma x = 15451.4$$

$$N = 411$$

$$\bar{x} = 37.5$$

Uma scoparia TEMPS
(BY SEX)



x	x ²										
32.5	1056.25	41.5	1722.25	34.3	1176.49	39.4	1552.36	39.5	1560.25	36.4	1324.96
34.2	1169.64	36.2	1310.44	37.9	1436.41	40.8	1664.64	39.6	1568.16	38.4	1474.56
34.4	1183.36	37.6	1413.76	39.8	1584.04	38.7	1497.69	37.5	1406.25	36.2	1310.44
36.8	1354.24	35.5	1260.25	42.4	1797.76	40.6	1648.36	38.0	1444.00	29.2	852.64
38.2	1459.24	40.4	1632.16	37.9	1436.41	32.6	1062.76	40.2	1616.04	31.6	936.36
40.2	1616.04	40.2	1616.04	33.6	1128.96	34.2	1169.64	35.8	1281.64	34.6	1197.16
36.8	1354.24	36.4	1324.96	38.8	1505.44	39.0	1521.00	38.4	1474.56	33.0	1089.00
37.2	1383.84	38.6	1489.96	41.3	1705.69	38.7	1497.69	37.0	1369.00	28.0	784.00
34.6	1197.16	38.9	1513.21	37.8	1428.84	40.0	1600.00	40.8	1664.64	28.6	817.96
40.6	1648.36	37.0	1369.00	39.0	1521.00	39.2	1536.64	38.8	1505.44	35.0	1225.00
40.8	1664.64	37.9	1436.41	36.2	1310.44	39.9	1592.01	38.0	1444.00	37.4	1398.76
36.6	1339.56	34.8	1211.04	40.6	1648.36	41.9	1755.61	32.8	1075.84	33.0	1089.00
37.0	1369.00	39.2	1536.64	39.7	1576.09	34.0	1156.00	38.5	1482.25	36.4	1324.96
38.2	1459.24	43.0	1849.00	26.4	696.96	38.1	1451.61	37.5	1406.25	37.2	1383.84
39.0	1521.00	36.2	1310.44	36.7	1346.89	38.4	1474.56	41.5	1722.25	36.0	1296.00
39.8	1584.04	40.0	1600.00	36.0	1296.00	40.4	1632.16	39.0	1521.00	37.6	1413.76
37.6	1413.76	36.0	1296.00	39.9	1592.01	41.6	1730.56	40.0	1600.00	35.0	1225.00
39.6	1568.16	35.1	1232.01	32.8	1428.84	40.6	1648.36	38.4	1474.56	37.4	1398.76
37.4	1398.76	32.3	1043.29	37.4	1398.76	37.1	1326.41	39.0	1521.00	37.0	1369.00
37.0	1369.00	32.6	1062.76	37.8	1428.84	37.6	1413.76	37.6	1413.76	38.4	1474.56
37.4	1398.76	27.7	767.29	30.9	954.81	34.4	1183.36	41.8	1747.24	37.8	1428.84
36.6	1339.56	31.8	1011.24	27.0	729.00	36.2	1310.44	38.5	1492.25	37.0	1369.00
34.8	1211.04	31.8	1011.24	37.4	1398.76	38.6	1489.96	41.5	1722.25	38.0	1444.00
35.6	1262.36	35.1	1232.01	37.2	1383.84	40.6	1648.36	39.2	1536.64	38.0	1444.00
35.0	1225.00	38.1	1497.69	38.3	1466.89	42.9	1840.41	38.8	1505.44	38.0	1444.00
40.0	1600.00	37.9	1436.41	39.7	1576.09	38.8	1505.44	37.5	1406.25	32.6	1062.76
41.2	1697.44	36.8	1354.24	38.4	1474.56	38.6	1489.96	40.9	1672.81	38.0	1444.00
42.0	1764.00	35.2	1239.04	36.6	1339.56	39.4	1552.36	43.8	1918.44	39.8	1584.04
40.1	1608.01	33.5	1122.25	41.3	1705.69	35.0	1225.00	34.6	1197.16	39.6	1368.14
39.4	1552.36	32.4	1049.76	34.6	1197.16	32.0	1369.00	37.6	1413.76	37.2	1383.84
39.8	1584.04	35.6	1262.36	37.9	1436.41	37.5	1406.25	43.4	1883.56	38.0	1444.00

UMA SCOPARIA Temps
(by sex)

♂

	x	x^2	x	x^2
39.0	1521.00	34.6	1197.16	
38.0	1444.00	34.4	1183.36	
39.8	1584.04	38.0	1216.00	
38.9	1505.44	37.1	1376.41	

40.6 1648.36

39.0 1521.00

44.2 1953.64

42.4 1797.76

37.6 1413.76

42.2 1780.84 36.4 1324.96

36.6 1339.56 37.4 1398.76

40.0 1600.00

40.0 1600.00

33.4 1115.56

35.8 1281.64

41.2 1697.44

38.4 1474.56

37.8 1428.84

37.3 1391.29

37.0 1369.00

38.2 1459.24

35.0 1225.00

42.0 1764.00

40.4 1632.16

39.7 1576.09

40.5 1640.25

40.2 1616.04

40.1 1608.01

38.0 1444.00

35.6 1267.36

38.7 1474.56

$$\cancel{\sum x = 8268.0}$$

$$\cancel{N = 220}$$

$$\cancel{\bar{x} = 37.5}$$

$$N = 222$$

$$\sum x = 8341.8$$

$$\sum x^2 = 315,378.75$$

$$\bar{x} = 37.57$$

$$(\bar{x})^2 = 1411.50$$

$$s^2 = 9.17$$

$$s = \sqrt{1.041}$$

$$= .262$$

$$43.2 1866.24$$

$$42.8 1831.84$$

$$40.4 1632.16$$

$$40.4 1632.16$$

$$38.0 1444.00$$

$$39.8 1584.04$$

$$41.2 1697.44$$

$$38.0 1444.00$$

$$40.0 1600.00$$

$$39.4 1552.36$$

$$39.2 1536.64$$

$$34.6 1339.56$$

Uma SCOPARIA TEMPS
(BY SEX)



X	X ²	X	X ²										
37.8	1428.84	37.5	1406.25	38.9	1592.01	38.4	1474.56	34.6	1197.16	36.0	1296.00		
37.5	1406.25	37.5	1406.25	41.2	1697.44	39.2	1536.64	37.4	1398.76	38.4	1474.56		
38.6	1489.96	36.3	1312.69	41.2	1697.44	36.5	1332.25	31.6	998.56	41.2	1474.56		
39.6	1568.16	34.6	1197.16	39.2	1536.64	40.8	1664.64	36.0	1296.00	38.8	1505.44		
36.4	1324.96	30.8	948.64	36.8	1354.24	43.0	1849.00	37.0	1369.00	34.8	1211.04		
38.0	1444.00	31.7	1004.89	39.4	1552.36	39.6	1568.16	36.8	1354.24	33.4	1115.56		
37.6	1413.76	31.0	961.00	38.8	1505.44	37.6	1413.76	38.6	1489.96	32.6	1062.74		
32.7	1069.29	31.6	998.56	38.2	1549.24	35.4	1253.16	37.0	1369.00	35.0	1225.00		
35.2	1239.04	32.4	1049.76	37.3	1391.29	38.5	1482.25	39.2	1536.64	36.8	1354.24		
36.4	1324.96	36.4	1324.96	36.6	1339.56	38.4	1474.56	32.0	1024.00	35.1	1232.01		
37.6	1413.76	39.3	1544.49	37.0	1369.00	35.0	1225.00	37.4	1398.76	36.2	1310.44		
40.0	1600.00	36.0	1296.00	39.2	1536.64	38.0	1444.00	36.6	1339.56	39.4	1552.36		
41.1	1689.21	39.8	1584.04	39.0	1526.00	39.0	1521.00	38.4	1474.56	36.9	1361.61		
39.3	1544.49	38.0	1444.00	39.3	1544.49	41.4	1713.96	37.6	1413.76	35.2	1239.04		
41.2	1697.44	36.5	1332.25	38.8	1505.44	38.7	1497.69	37.8	1428.84	37.2	1398.76		
38.5	1482.25	32.6	1062.76	38.8	1505.44	42.8	1831.84	37.8	1428.84	36.7	1346.89		
39.9	1592.01	38.0	1444.00	40.9	1672.81	32.6	1413.76	38.6	1489.96	38.0	1444.00		
42.6	1814.76	37.4	1398.76	41.5	1722.25	39.8	1584.04	38.2	1459.24	37.0	1369.00		
40.8	1664.64	35.0	1225.00	37.6	1413.76	38.2	1459.24	39.4	1552.36	37.6	1413.76		
39.4	1552.36	36.1	1303.21	38.8	1505.44	41.2	1697.44	38.0	1444.00	41.0	1681.00		
34.8	1211.04	28.3	800.89	36.6	1339.56	34.2	1169.64	38.0	1444.00	39.4	1552.36		
36.6	1339.56	38.6	1489.96	40.2	1616.04	35.6	1267.36	35.2	1239.04	38.4	1474.56		
36.8	1354.24	38.6	1489.96	37.8	1428.84	36.4	1324.96	35.2	1239.04	38.0	1444.00		
37.8	1428.84	40.5	1640.25	39.1	1528.81	33.5	1122.25	39.6	1568.16	38.6	1489.96		
36.7	1346.89	39.4	1552.36	39.4	1552.36	36.9	1361.61	41.0	1681.00	38.6	1489.96		
40.2	1616.04	37.6	1413.76	27.6	761.76	25.8	665.64	38.0	1444.00	40.0	1600.00		
39.4	1552.36	37.0	1369.00	38.0	1444.00	30.2	912.04	38.8	1525.44	40.3	1624.04		
39.2	1536.64	39.2	1536.64	38.0	1444.00	32.5	1056.25	41.0	1681.00	37.4	1398.76		
40.5	1640.25	37.8	1428.84	37.6	1413.76	34.0	1156.00	36.0	1296.00	36.0	1296.00		
38.6	1489.96	41.0	1681.00	38.0	1444.00	31.8	1011.24	43.0	1549.24	39.0	1521.00		
37.2	1383.84	43.0	1849.00	36.2	1310.44	38.0	1444.00	43.2	1566.24	38.0	1444.00		



LIMA ECOPIARIA TEMPS
(BY SEX)

x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
38.2	1459.24					38.4	1474.56				

37.0 1369.00

38.0 1444.00

36.5 1332.25

37.8 1428.84

$$\sum x = 7021.9$$

$$42.0 \underline{1764.00}$$

~~$N = 187$~~

~~$N = 187$~~

~~$\bar{x} = 37.5$~~

~~$\sum x = 7764.4$~~

$$N = 188$$

$$\sum x = 7764.4$$

$$\sum x = 7059.7$$

$$42.0 \underline{1764.00}$$

$$\sum x^2 = 266,679.37$$

$$\bar{x} = 37.7$$

$$\bar{x} = 37.55$$

$$\sum x^2 = 7764.4$$

$$(\bar{x})^2 = 1410.25$$

$$= .190$$

$$S^2 = 8.55$$

$$S.E. = \sqrt{0.045}$$

$$= .212$$

38.6 1489.96

39.2 1536.64

40.4 1632.16

40.0 1600.00

39.6 1568.16

40.8 1664.64

42.0 1764.00

39.2 1536.64

37.0 1369.00

41.4 1713.96

39.0 1521.00

37.0 1369.00

38.6 1489.96

Uma scodaria TEMPS
 (BY AGE)

ADULT

x	x ²										
40.2	1616.04	39.4	1552.36	37.9	1436.41	32.6	1413.76	39.0	1521.00	37.5	1406.25
37.2	1383.84	39.2	1536.64	33.6	1128.96	39.0	1521.00	39.3	1544.49	39.5	1560.25
34.6	1197.16	37.0	1369.00	38.8	1505.44	37.0	1369.00	37.6	1413.76	39.6	1568.16
40.8	1664.64	37.9	1436.41	37.8	1428.84	38.7	1497.69	38.8	1505.44	39.2	1536.64
39.6	1568.16	34.8	1211.04	39.0	1521.00	39.2	1536.64	38.8	1505.44	36.5	1332.25
36.4	1324.96	39.2	1536.64	26.4	696.96	37.8	1428.84	40.9	1672.81	37.5	1406.25
38.0	1444.00	43.0	1849.00	36.0	1296.00	40.0	1600.00	41.5	1722.25	40.8	1664.64
37.6	1413.76	36.2	1310.44	39.9	1592.01	39.2	1536.64	39.4	1183.36	43.0	1849.00
37.4	1398.76	40.0	1600.00	37.8	1428.84	39.9	1592.01	36.2	1310.44	39.6	1568.16
37.4	1398.76	37.5	1406.25	35.0	1225.00	41.9	1755.61	37.6	1413.76	37.6	1413.76
36.6	1339.56	37.5	1406.25	36.1	1303.21	41.0	1681.00	38.8	1505.44	38.0	1444.00
32.7	1069.29	36.0	1296.00	28.3	800.89	34.0	1156.00	36.6	1339.56	40.2	1616.04
34.8	1211.04	36.3	1317.69	27.0	729.00	38.1	1451.61	38.6	1489.96	35.8	1281.64
35.0	1225.00	35.1	1232.01	37.2	1383.84	43.0	1849.00	40.2	1616.04	38.4	1474.56
40.0	1600.00	30.8	948.64	38.6	1489.96	39.9	1592.01	37.8	1428.84	37.0	1369.00
40.0	1600.00	31.7	1004.89	38.3	1466.89	38.4	1474.56	40.6	1648.36	40.8	1664.64
39.3	1544.49	31.0	961.00	38.6	1489.96	41.2	1697.44	42.9	1840.41	38.8	1505.44
41.2	1697.44	31.6	998.56	39.7	1526.09	40.4	1632.16	39.1	1528.81	38.0	1444.00
38.5	1482.25	32.3	1043.29	38.4	1474.56	41.6	1730.56	39.4	1552.36	32.8	1075.84
39.9	1592.01	32.6	1062.76	36.6	1339.56	41.2	1697.44	38.8	1505.44	38.5	1482.25
42.6	1814.76	32.4	1049.76	41.3	1705.69	39.2	1536.64	27.6	761.76	41.5	1722.25
39.8	1584.04	27.7	767.29	34.6	1197.16	36.8	1354.24	38.0	1444.00	39.0	1521.00
40.8	1664.64	31.8	1011.24	37.9	1436.41	39.4	1552.36	38.6	1489.96	35.4	1253.16
41.5	1722.25	36.4	1324.96	39.4	1552.36	40.6	1648.36	39.4	1552.36	38.5	1482.25
39.4	1552.36	39.3	1544.49	40.5	1640.25	38.8	1505.44	35.0	1225.00	40.0	1600.00
36.6	1339.56	36.0	1296.00	40.8	1664.64	38.2	1549.24	38.0	1444.00	38.4	1474.56
36.8	1354.24	35.2	1239.04	39.4	1552.36	37.1	1376.41	37.6	1413.76	38.4	1474.56
38.9	1513.21	33.5	1122.25	38.7	1497.69	37.3	1391.29	38.0	1444.00	35.0	1225.00
37.8	1428.84	32.4	1049.76	40.6	1648.36	36.6	1339.56	36.2	1310.44	38.0	1444.00
36.7	1346.89	39.8	1584.04	32.6	1062.76	37.0	1369.00	38.4	1474.56	39.0	1521.00
40.2	1616.04	38.0	1444.00	34.2	1169.64	39.2	1536.64	37.0	1369.00	39.0	1521.00



Uma SCOPARIA TEMPS
 (BY AGE)
ADULT

\bar{x}	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
37.6	1413.76	35.0	1225.00	35.1	1232.01						
41.8	1747.24	37.8	1428.84	35.2	139.04						
41.4	1713.96	38.6	1489.96	37.3	1391.29						
38.5	1482.25	37.0	1369.00	36.7	1346.89						
38.7	1497.69	38.0	1444.00	38.2	1459.24						
41.5	1722.25	39.2	1536.64	38.0	1444.00						
39.2	1536.64	38.0	1444.00	37.0	1369.00						
38.8	1505.44	32.0	1024.00	35.0	1225.00						
42.8	1831.84	37.4	1398.76	42.0	1764.00						
37.5	1406.25	38.4	1474.56	37.6	1413.76						
40.9	1672.81	37.6	1413.76	40.4	1632.16						
37.6	1413.76	38.2	1459.24	39.7	1576.09						
39.8	1584.04	38.0	1444.00	38.4	1474.56						
43.8	1918.44	39.6	1568.16	38.0	1444.00						
34.2	1169.64	39.0	1521.00	38.6	1489.96	37.8	1426.84				
37.6	1413.76	38.0	1444.00	38.6	1489.96	36.4	1321.96				
35.6	1267.36	39.8	1584.09	40.0	1600.00	40.4	1632.16				
36.4	1324.96	40.6	1648.36	40.1	1608.01	40.4	1632.16				
43.4	1883.56	39.0	1521.00	40.3	1624.09	38.0	1444.00				
36.4	1324.96	44.2	1953.64	38.0	1444.00	42.0	1764.00				
38.4	1474.56	43.0	1849.00	35.6	1267.36	37.0	1369.00				
25.8	665.64	36.0	1296.00	38.4	1474.56	41.4	1713.96				
30.2	912.04	41.2	1697.44	34.6	1197.16	39.0	1521.00				
32.5	1056.25	42.4	1797.76	34.4	1183.36	37.0	1369.00				
34.6	1197.16	33.4	1115.56	38.0	1444.00	38.6	1489.96				
34.0	1156.00	34.8	—	37.1	1376.41	37.0	1369.00				
33.0	1089.00	33.4	—	38.2	1459.24						
28.0	784.00	32.6	1062.76								
28.6	817.96	35.8	1281.64								
33.0	1089.00	37.6	1413.76								
37.6	1413.76	41.2	1697.44								

$$\Sigma x = 10280.5$$

$$N = 273$$

$$\bar{x} = 37.6$$

$$\Sigma A = 10,554.7$$

$$\Sigma x^2 = 342,623.11$$

$$\bar{x}^2 = 37.65$$

$$\bar{x}^2 = 1418.52$$

$$S^2 = 16.2$$

$$S = \sqrt{16.2} = 4.0$$

$$S^2 = 1.07$$

$$S = \sqrt{1.07} = 1.03$$

Uma scoparia TEMPS
 (BY AGE)
IMMATURE

x	x^2	x	x^2								
37.8	1428.84	36.4	1324.96	38.2	1459.24	39.8	1584.04	37.8	1428.84		
34.4	1183.36	38.6	1489.96	41.2	1697.44	39.6	1568.16	37.4	1398.76		
36.8	1354.24	40.5	1640.25	33.5	1122.25	37.2	1383.84	37.0	1369.00		
38.2	1459.24	38.6	1489.96	36.9	1361.61	39.4	1552.36	41.0	1681.00		
36.8	1354.24	37.2	1383.84	36.2	1310.44	38.0	1444.00	39.4	1552.36		
40.6	1648.36	34.6	1197.16	29.2	852.64	35.2	1239.04	40.5	1640.25		
36.6	1339.56	31.8	1011.24	31.6	998.56	38.0	1444.00	40.2	1616.04		
37.5	1406.25	35.1	1232.01	31.8	1011.24	35.2	1239.04	37.4	1398.76		
37.0	1369.00	38.7	1492.69	35.0	1225.00	38.9	1513.21	36.0	1240.00		
38.2	1459.24	37.9	1436.41	37.4	1398.76	41.0	1681.00	39.0	1521.00		
39.0	1521.00	36.8	1354.24	38.0	1444.00	38.0	1444.00	32.5	1056.25		
39.8	1584.04	35.6	1267.36	36.4	1324.96	38.8	1505.44	34.2	1169.64		
38.6	1489.96	34.3	1176.49	37.2	1383.84	41.0	1681.00				
37.6	1413.76	37.9	1436.41	34.6	1197.16	36.0	1296.00				
39.6	1568.16	36.5	1332.25	37.4	1398.76	42.2	1780.84				
37.0	1369.00	39.8	1584.04	31.6	998.56	43.2	1806.24				
35.6	1267.36	42.4	1797.76	36.0	1296.00	38.4	1474.56				
35.2	1232.01	41.3	1705.69	36.0	1296.00	37.6	1413.76				
36.4	1324.96	36.2	1310.44	37.0	1369.00	42.2	1780.84				
37.6	1413.76	40.6	1648.36	37.4	1398.76	38.8	1505.44				
41.2	1697.44	39.7	1576.09	37.0	1369.00	36.6	1339.56	37.4	1398.76	$\Sigma x = 5089.2$	
41.1	1689.21	32.6	1062.76	38.4	1474.56	40.0	1600.00			$N = 136$	
42.0	1764.00	36.7	1346.99	36.8	1354.24	40.0	1600.00			$\bar{x} = 37.4$	
40.1	1608.01	38.0	1444.00	37.0	1369.00	34.8	1211.04			$N = 137$	
39.4	1552.36	37.8	1428.84	38.0	1444.00	33.4	1115.56			$\Sigma x = 5114.6$	
34.8	1211.04	37.4	1398.76	32.6	1062.76	35.0	1225.00			$\sum x^2 = 192,645.5$	
36.2	1310.44	37.4	1398.76	38.0	1444.00	36.8	1354.24			$\bar{x} = 37.42$	
37.6	1413.76	30.9	954.81	36.6	1339.56	36.2	1310.44			$(\bar{x})^2 = 1406.25$	
35.5	1260.25	37.4	1398.76	37.8	1428.84	39.4	1552.36			$S^2 = 32$	
40.4	1632.16	37.5	1406.25	37.8	1428.84	36.9	1361.61			$S.E = \sqrt{1.000}$	
40.2	1616.04	34.6	1197.16	38.6	1489.96	38.4	1474.56			$= .214$	

Uma scoparia Temps
(by age)
Juvenile

	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
39.8			1584.04									
39.2			1536.64									
41.2			1697.44									
38.0			1444.00									
40.0			1600.00									
38.4			1474.56									
39.4			1552.36									
38.0			1444.00									
36.5			1332.25									
39.2			1536.64									
42.0			1764.00									
<u>36.6</u>			<u>1339.56</u>									

$$n = 12$$

$$\Sigma x = 468.3$$

$$\Sigma x^2 = 18303.99$$

$$\bar{x} = 39.0$$

$$\bar{x}^2 = 1521.00$$

$$s^2 = 4.84$$

$$S.E. = \sqrt{405}$$

$$= .636$$

TIME *Uma scoparia* ARE ACTIVE, BY MONTH

TIME	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
0500												
0530												
0600												
0630												
0700								*/				
0730									*/			
0800									*/ **	*		
0830									*/ **	*		
0900									*/ **	*		
0930									*/ **	*		
1000									*/ **	*		
1030									*/ **	*		
1100									*/ **	*		
1130									*/ **	*		
1200									*/ **	*		
1230									*/ **	*		
1300									*/ **	*		
1330									*/ **	*		
1400									*/ **	*		
1430									*/ **	*		
1500									*/ **	*		
1530									*/ **	*		
1600									*/ **	*		
1630									*/ **	*		
1700									*/ **	*		
1730									*/ **	*		
1800									*/ **	*		
1830									*/ **	*		
1900										*/ **	*	
1930										*/ **	*	

Uma spp

Uma spp.

Times *Uma* spp. Are Active (1958-1963)

Species	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
notata	18	29	63	96	91	59	64	109	88	84	24	2
inornata	1	52	132	124	210	63	41	89	37	33	1	0
scoparia	1	22	68	81	79	72	75	87	28	40	2	0
Total	20	103	263	301	380	194	180	285	153	157	27	2

Total N = 2065

notata N = 727

inornata N = 783

scoparia N = 555

)

March - April Activity (1958-1963)

Species	Mar.	Apr.	Total
notata	63	96	159
inornata	132	124	256
scoparia	68	81	149
Total	263	301	564

Proportion of *Uma* spp. Captured at Different Cloucal Temperatures
 (Through March 1963)

Temp(°)	<u>inornata</u>		<u>notata</u>		<u>sceparia</u>	
	No.	%	No.	%	No.	%
24	0	0	3	1	0	0
25	0	0	4	1	0	0
26	1	0	0	0	2	0
27	0	0	3	1	1	0
28	0	0	4	1	4	1
29	1	0	3	1	2	0
30	0	0	9	2	1	0
31	2	0	3	1	3	1
32	3	1	11	3	13	4
33	7	2	9	2	10	3
34	9	3	18	4	9	3
35	18	6	17	4	21	7
36	29	10	35	8	25	8
37	45	15	39	9	50	15
38	55	19	36	9	62	19
39	42	15	48	11	51	16
40	29	11	44	11	30	10
41	22	8	50	12	26	8
42	15	5	30	7	5	2
43	10	4	31	7	7	2
44	3	1	11	3	1	0
45	0	0	7	2	0	0
46	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
N	<u>291</u>		<u>418</u>		<u>323</u>	

$$\sum N = 1032$$

UROSAURUS GRACIOSA



I.R. - 13 8½ x 11



UROSAURUS CRASSOSA

Uroscurus vegetation preference

<i>Eriogonum deserticola</i>	
<i>Cephaelis pedunculata</i> sp.	
<i>Larrea divaricata</i>	
<i>Croton californicus</i>	
<i>Dalea emoryi</i>	
<i>Helianthus</i>	
<i>Dalea spinosa</i>	
<i>Petalonyx thurberi</i>	
<i>Dicoria canescens</i>	
<i>Atriplex canescens</i>	
<i>Hilaria rigida</i>	
<i>Chilopsis linearis</i>	
<i>Cercidium</i>	
<i>Chrysothamnus</i> sp.	
<i>Paloformia linearis</i>	
<i>Encelia</i>	

UROSAURUS GRACIOSA TEMPS
(BY MONTH)

FEBRUARY

x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
28.9	835.21												
25.7	660.49												
31.8	1011.24												
28.6	812.96												
28.9	835.21												
<u>32.1</u>	<u>1030.41</u>												
<u>34.3</u>	<u>1176.49</u>												

$$N = 7$$

$$\sum x = 210.3$$

$$\sum x^2 = 6,777.01$$

$$\bar{x} = 30.04$$

$$\bar{x}^2 = 902.4$$

$$\Sigma \bar{x} = 210.27$$

$$\Sigma \bar{x}^2 = 11,20$$

$$= 1.10$$

UROSAURUS GRACIOSA TEMPS
(BY MONTH)
MARCH.

UROSAURUS ^{GRACIOSA} (BY MONTH) TEMPS

APRIL

UROSAURUS GRACIOSA TEMPS
 (BY MONTH)
MAY

\bar{x}	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
<u>33.9</u>	1149.21												
<u>38.6</u>	1489.96												
<u>38.4</u>	1474.56												
<u>33.8</u>	1142.44												
<u>34.6</u>	1197.16												
<u>28.6</u>	817.96												
<u>37.6</u>	1413.76												
<u>33.0</u>	1089.00												
<u>28.9</u>	835.21												
<u>30.5</u>	930.25												
<u>27.8</u>	772.84												
<u>29.2</u>	852.64												
<u>31.4</u>	985.96												
<u>29.5</u>	870.25												
<u>30.8</u>	948.64												
<u>28.6</u>	817.94												
<u>33.2</u>	1102.24												
<u>23.4</u>	547.56												
<u>27.8</u>	772.84												
<u>35.6</u>	1267.36												
<u>30.4</u>	924.16												

$N = 21$

$$\sum x = 665.6$$

$$\sum x^2 = 21,401.96$$

$$\bar{x} = 31.69$$

$$(\bar{x})^2 = 1004.25$$

$$S^2 = 15.6$$

$$S = \sqrt{15.6} = 3.9$$

$$= .862$$

UROSAURUS ~~GRACIOSA~~ TEMPS
(BY MONTH).

JUNE

\bar{x}	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	
39.0	1521.00			37.6	1312.96										
39.9	1592.01			40.8	1664.64										
38.9	1513.21			35.8	1241.64										
40.7	1656.49			35.8	1241.64										
40.8	1664.64			39.4	1553.96										
37.6	1413.76			39.4	1553.96										
35.5	1260.25			38.9	1413.21										
34.6	1197.16			40.4	1616.16										
39.2	1536.64			41.3	1705.69										
30.0	900.00														
26.0	676.00														
27.4	750.76														
28.0	784.00														
26.8	718.24														
30.4	924.16														
25.0	625.00														
34.2	1169.64														
32.8	1075.84														
29.4	864.36														
$N = 19$															
$\sum x = 636.2$															
$\sum x^2 = 21,843.16$															
$\bar{x} = 33.48$															
$\bar{x}^2 = 1125.52$															
$\sum x\bar{x} = 21,843.16$															
$S_x^2 = \frac{1}{N-1} \sum x^2 - \bar{x}^2$															
$S_x^2 = \frac{1}{18} (21,843.16 - 1125.52)$															
$S_x^2 = 1075.84$															
$S_x = \sqrt{1075.84}$															
$S_x = 32.78$															
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$S_x = 32.78$															
$S_x = \sqrt{1075.84}$ </td															

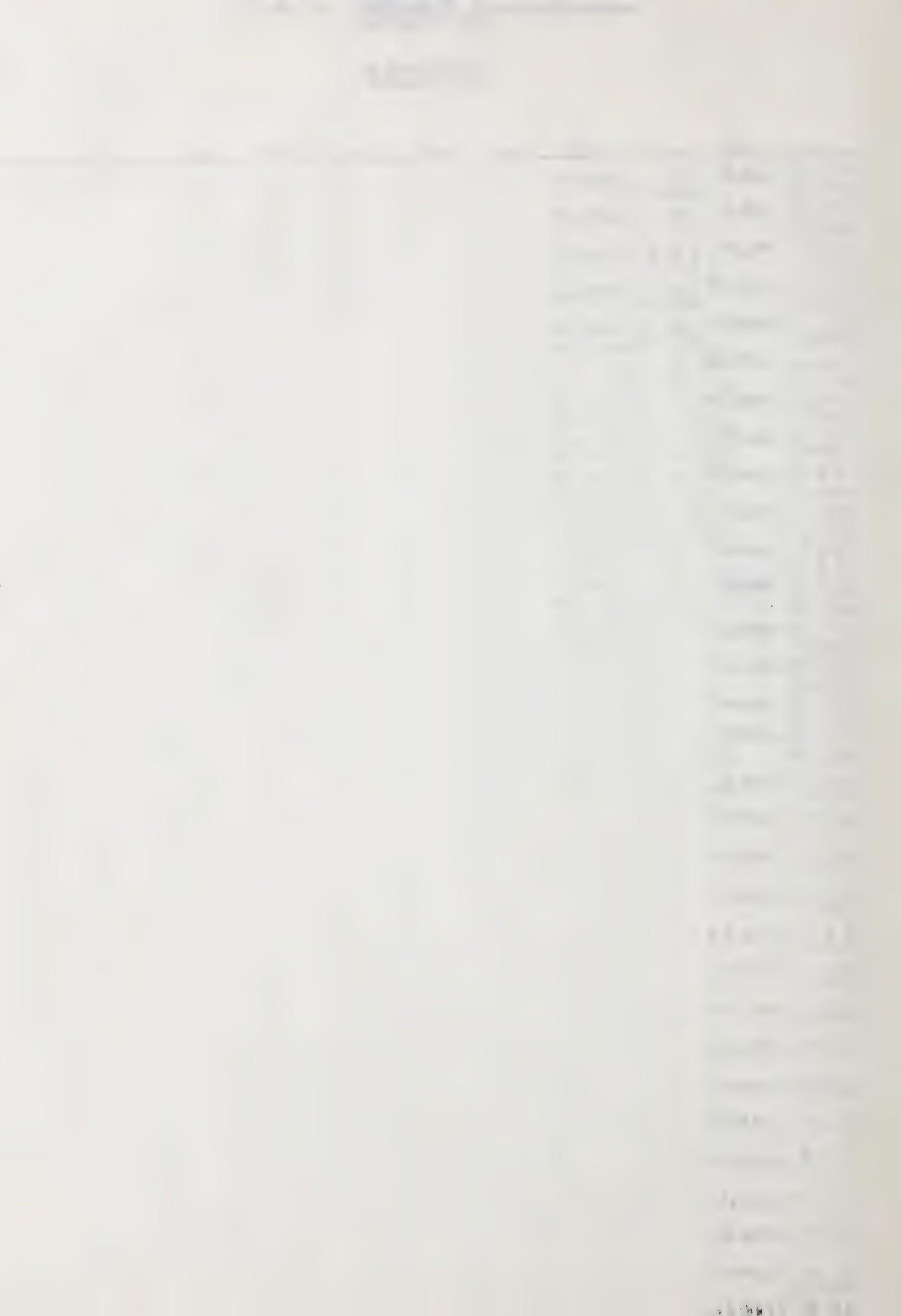
UROSAURUS GRACIOSA TEMPS
(BY MONTH)

JULY

UROSAURUS GRACIOSA TEMPS
(BY MONTA)

UROSAURUS GRACIOSA TEMPS (BY MONTH)

SEPTEMBER



UROSAURUS GRACIOSA TEMPS
(BY MONTH)

OCTOBER

x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
35.6	1267.36												
37.5	1406.25												
37.4	1398.76												
<u>32.2</u>	<u>1036.84</u>												

$$N = 4$$

$$\sum x = 142.7$$

$$\sum x^2 = 5104.21$$

$$\bar{x} = 35.67$$

$$(\bar{x})^2 = 1272.34$$

$$39.8 \quad 1584.04$$

$$40.4 \quad 1612.16$$

$$33.8 \quad 1142.44$$

$$40.1 \quad 1608.01$$

$$37.0 \quad 1369.00$$

$$33.8 \quad 1142.44$$

$$\sum x = 142.7$$

$$\sum x^2 = 5104.21$$

$$\bar{x} = 35.67$$

$$\bar{x}^2 = 1272.34$$

$$\frac{71.99}{4}$$

$$\bar{x}^2 = 18.99$$

$$.71$$

UROSAURUS ~~GRACIOSA~~ TEMPS
(BY MONTH)

NOVEMBER

$x \quad x^2$ $x \quad x^2$

29.4 864.36

28.2 795.24

$$N = 2$$

$$\sum x = 57.6$$

$$\sum x^2 = 1659.6$$

$$\bar{x} = 28.80$$

$$s^2 = 9.2744$$

UROSAURUS GRACIOSA TEMPS
 (BY SEX)



\bar{x}	x^2	\bar{x}	x^2	\bar{x}	x^2								
41.4	1713.96	35.9	1288.81	39.6	1568.16	40.0	1600.00	22.4	501.76				
33.4	1115.56	34.2	1169.64	42.2	1780.84	39.4	1552.36	32.0	1024.00				
36.6	1339.56	37.8	1428.84	39.8	1584.04	38.4	1474.56	27.8	772.84				
23.0	529.00	35.8	1281.64	35.5	1260.25	38.4	1474.56	27.8	772.84				
24.9	620.01	35.6	1267.36	37.5	1406.25	42.0	1764.00	35.6	1267.36				
33.4	1115.56	35.0	1225.00	35.5	1260.25	40.8	1664.64	32.8	1075.84				
29.6	876.16	36.6	1339.56	35.6	1267.36	38.8	1505.44	29.4	864.36				
40.4	1632.16	31.7	1004.89	32.2	1036.84	41.4	1713.96	32.0	1024.00				
42.6	1814.76	35.3	1246.09	35.8	1281.64	40.8	1664.64	33.8	1142.44				
41.8	1747.24	36.1	1303.21	34.8	1211.04	39.4	1552.36	34.0	1156.00				
39.8	1428.84	36.5	1332.25	29.8	988.04	36.0	1296.00	38.0	1444.00				
33.9	1149.21	39.1	1528.81	36.0	1296.00	42.6	1814.76	37.6	1413.76				
36.0	1296.00	33.9	1149.21	40.4	1632.16	41.4	1713.96	37.0	1369.00				
35.7	1274.49	38.4	1474.56	40.6	1648.36	40.6	1648.36		N = 133				
37.4	1398.76	33.8	1142.44	35.0	1225.00	41.0	1681.00		$\sum x = 4736.5$				
39.4	1552.36	28.6	817.96	40.4	1632.16	39.0	1521.00		$\sum x^2 = 171556.39$				
37.1	1376.41	38.9	1513.21	39.2	1536.64	39.2	1536.64						
34.7	1204.09	40.7	1656.49	39.5	1560.25	36.0	1296.00		$\bar{x} = 35.61$				
30.8	948.64	40.8	1664.64	31.4	985.96	36.0	1296.00						
25.7	660.49	37.9	1436.41	30.8	948.64	36.8	1354.24	35.8	1296.00				
31.8	1011.24	40.0	1600.00	34.6	1197.16	38.2	1459.24	35.8	1296.00				
28.6	817.96	40.5	1640.25	39.2	1536.64	38.4	1474.56	39.4	1296.00				
32.1	1030.41	38.8	1505.44	26.0	676.00	39.0	1521.00	38.9	1149.21				
34.3	1176.49	37.4	1398.76	27.4	750.76	39.6	1568.16	41.3	1713.96				
35.1	1232.01	34.0	1156.00	25.0	625.00	34.2	1169.64		N = 133				
32.4	1049.76	39.2	1536.64	39.0	1521.00	31.0	961.00		$\sum x = 4736.7$				
37.6	1413.76	25.0	625.00	39.6	1568.16	25.0	425.00		$\sum x^2 = 171556.39$				
34.6	1197.16	26.2	686.44	39.8	1584.04	28.2	795.24		$\bar{x} = 25.70$				
33.9	1149.21	36.5	1332.25	42.0	1764.00	33.4	1115.56		$\sum x^2 = 171556.39$				
40.0	1600.00	35.5	1260.25	39.4	1552.36	26.0	676.00		$\bar{x} = 32.2$				



UROSAURUS ~~GRACIOSA~~ TEMPS (BY SEX)

\bar{x}	\bar{x}^2	\bar{x}	\bar{x}^2	\bar{x}	\bar{x}^2	\bar{x}	\bar{x}^2	\bar{x}	\bar{x}^2	\bar{x}	\bar{x}^2
39.0	1521.00	40.4	1632.16	28.0	784.00	29.0	841.00	37.6	141.36		
39.2	1536.64	38.9	1513.21	26.8	718.24	28.8	829.44	40.8	164.64		
38.8	1505.44	39.2	1536.64	30.4	924.16	29.0	841.00	37.4	152.96		
35.5	1260.25	39.6	1568.16	35.4	1253.16	28.4	806.56	40.4	160.16		
28.6	817.96	39.3	1544.49	34.4	1183.36	28.2	795.24		N = 120		
36.6	1339.56	36.4	1324.96	42.0	1764.00	25.4	645.16	$\Sigma x = 4191.4$			
37.4	1398.26	29.0	841.00	40.0	1600.00	30.6	936.36				
38.3	1466.89	27.0	729.00	40.4	1632.16	32.0	1024.00				
29.4	864.36	31.8	1011.24	39.6	1568.16	33.2	1102.24				
28.2	795.24	35.5	1260.25	40.0	1600.00	33.2	1102.24				
28.9	835.21	41.2	1697.44	39.0	1521.00	29.8	888.04				
36.0	1296.00	37.8	1428.84	38.4	1474.56	26.0	676.00				
32.5	1056.25	37.5	1406.25	39.4	1552.36	24.0	576.00				
36.4	1324.96	37.4	1398.76	39.8	1584.04	30.2	912.04				
35.1	1232.01	39.9	1592.01	39.0	1521.00	31.0	961.00				
35.4	1253.16	36.6	1339.56	39.5	1360.25	23.4	547.56				
39.6	1197.16	36.2	1310.44	39.0	1521.00	30.4	924.16				
28.6	817.96	35.8	1281.64	39.0	1521.00	34.2	1169.64				
35.4	1253.16	36.0	1296.00	38.6	1489.96	33.0	1087.00				
36.8	1354.24	39.2	1536.64	37.5	1406.25	34.0	1156.00				
36.2	1310.44	38.2	1459.24	37.2	1383.84	37.2	1383.84				
35.6	1267.36	41.4	1713.96	41.0	1681.00	35.2	1239.04				
36.2	1310.44	40.6	1648.36	36.4	1324.96	33.0	1089.00				
32.0	1024.00	33.0	1089.00	36.0	1296.00		N = 116				
26.4	696.96	28.9	835.21	36.8	1354.24		$\sum x = 4033.2$				
38.6	1489.96	30.5	930.25	35.4	1253.16		$\sum x^2 = 142,590.08$				
34.6	1197.16	27.8	772.84	39.8	1584.04		$\bar{x} = 34.76$				
37.6	1413.76	29.2	852.64	38.6	1489.96						
39.9	1592.01	29.5	870.25	39.0	1521.00						
37.6	1413.76	30.0	900.00	39.0	1521.00						
34.0	1156.00	35.0	1225.00	30.4	924.16						

UROSAURUS GRACIOSA TEMPS
(BY AGE)

ADULI

x	x ²										
39.0	1521.00	31.8	1011.24	32.0	1024.00	36.4	1324.96	40.4	1632.16	34.4	1183.36
39.2	1536.64	28.6	817.96	31.7	1004.89	39.2	1536.64	40.6	1648.36	39.6	1568.16
33.4	1115.56	28.9	835.21	35.3	1246.09	25.0	625.00	35.0	1225.00	39.8	1584.04
38.8	1505.44	32.1	1030.41	36.1	1303.21	29.0	841.00	39.2	1536.64	42.0	1764.00
35.5	1260.25	34.3	1176.49	36.5	1332.25	26.2	686.44	38.2	1452.24	42.0	1764.00
36.6	1339.56	35.1	1232.01	39.1	1528.81	27.0	729.00	41.4	1713.96	40.0	1600.00
23.0	529.00	36.0	1296.00	26.4	1696.96	36.5	1332.25	40.4	1632.16	39.4	1552.36
24.9	620.01	32.5	1056.25	33.9	1149.21	31.8	1011.24	39.2	1536.64	40.4	1632.16
33.4	1115.56	36.4	1324.96	38.6	1489.96	35.5	1260.25	39.5	1560.25	39.6	1568.16
28.6	817.96	32.4	1049.76	38.4	1424.56	35.5	1260.25	36.0	1296.00	40.0	1600.00
29.6	876.16	35.1	1232.01	33.8	1142.44	39.6	1568.16	40.6	1648.36	39.6	1568.16
40.4	1632.16	37.6	1413.76	34.6	1197.16	42.2	1780.84	33.0	1089.00	38.4	1474.56
42.6	1814.76	35.4	1253.16	28.6	817.96	41.2	1692.49	28.9	835.21	40.0	1600.00
41.8	1747.24	34.6	1197.16	37.6	1413.76	39.8	1584.04	30.5	930.25	39.4	1552.36
37.8	1428.84	33.9	1149.21	39.9	1592.01	35.5	1260.25	22.8	772.84	39.8	1584.04
33.9	1149.21	40.0	1600.00	38.9	1513.21	37.5	1406.25	29.2	852.64	39.4	1552.36
36.0	1296.00	35.9	1288.81	40.7	1656.49	35.5	1260.25	31.4	985.96	38.4	1474.56
35.7	1274.49	34.2	1169.64	40.8	1664.64	37.8	1428.84	29.5	870.25	38.4	1474.56
36.6	1339.56	34.6	1197.16	37.6	1413.76	35.6	1267.36	30.8	948.64	42.6	1814.76
37.4	1398.76	37.8	1428.84	37.9	1436.41	37.5	1406.25	34.6	1197.16	40.8	1664.64
37.4	1398.76	35.8	1281.64	40.4	1632.16	37.4	1398.76	39.2	1536.64	39.0	1521.00
38.3	1466.89	35.6	1267.36	38.9	1513.21	32.2	1036.84	30.0	900.00	38.8	1505.44
39.4	1552.36	28.6	817.96	39.2	1536.64	35.8	1281.64	26.0	676.00	39.5	1560.25
37.1	1376.41	35.0	1225.00	40.0	1600.00	34.8	1211.04	27.4	750.76	41.4	1713.96
34.7	1204.09	36.6	1339.56	39.6	1568.16	29.8	888.04	28.0	784.00	40.8	1664.64
30.8	948.64	35.4	1253.16	39.3	1544.49	39.9	1592.01	26.8	718.24	39.0	1521.00
29.4	864.36	36.8	1354.24	40.5	1640.25	36.6	1339.56	30.4	924.16	39.4	1552.36
28.2	795.24	36.2	1310.44	38.8	1505.44	36.2	1310.44	25.0	625.00	39.0	1521.00
28.9	835.21	35.6	1267.36	37.4	1398.76	35.8	1281.64	35.4	1253.16	38.6	1489.96
25.7	660.49	36.2	1310.44	34.0	1156.00	36.0	1296.00	39.0	1521.00	37.5	1406.25
40.6	1648.36	41.0	1681.00	41.0	1681.00	39.0	1521.00	39.2	1536.64	34.0	1156.00

UROSAURUS GRACIOSA TEMPS
(BY AGE)

ADULT

x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	
36.0	1296.00	28.2	795.24	37.6	1383.84	32.0	1024.00	35.8	1296.00	33.2	1102.24	40.4	1552.96	
41.4	1713.96	30.6	936.36	40.8	1324.96	22.4	501.76	38.9	1517.21	30.2	888.04	35.4	1253.16	
37.2	1383.84	32.0	1024.00	35.8	1296.00	26.0	676.00	39.4	1296.00	24.0	576.00	39.0	1521.00	
35.0	1225.00	33.4	1115.56	37.4	1102.24	40.4	1552.96	31.0	941.00	33.8	1142.44	31.0	1489.96	
36.0	1296.00	26.0	676.00	39.4	1354.24	29.8	888.04	35.8	1521.00	35.6	1267.36	39.0	1521.00	
36.4	1324.96	22.4	501.76	38.9	1354.24	30.2	912.04	35.23	38.6	1489.96	23.4	547.56	38.2	1459.24
36.0	1296.00	33.2	1102.24	40.4	1354.24	30.2	912.04	35.23	39.8	1584.04	31.0	961.00	39.0	1521.00
36.8	1354.24	29.8	888.04	35.8	1296.00	24.0	576.00	39.0	38.6	1489.96	23.4	547.56	38.0	1459.24
35.4	1253.16	26.0	676.00	39.4	1521.00	35.6	1267.36	31.9	38.2	1459.24	27.8	722.84	39.0	1521.00
36.0	1296.00	24.0	576.00	39.0	1521.00	35.6	1267.36	31.9	39.0	1521.00	34.2	1169.64	39.6	1568.16
36.8	1354.24	30.2	912.04	35.23	1521.00	34.2	1169.64	31.9	39.6	1568.16	32.8	1075.84	39.0	1521.00
35.0	1225.00	33.4	1115.56	37.4	1354.24	30.2	912.04	35.23	39.0	1521.00	29.4	864.36	34.2	1169.64
34.2	1169.64	32.0	1024.00	38.0	1324.96	22.4	501.76	35.8	39.0	1521.00	29.4	864.36	34.2	1169.64
31.0	941.00	33.8	1142.44	31.0	1296.00	26.0	676.00	39.4	39.0	1521.00	29.4	864.36	31.0	941.00
30.4	934.16	34.0	1156.00	31.2	1324.96	22.4	501.76	35.8	39.0	1521.00	29.4	864.36	30.4	934.16
29.0	841.00	38.0	1444.00	31.0	1354.24	29.8	888.04	35.8	39.0	1521.00	29.4	864.36	29.0	841.00
28.8	829.44	33.0	1089.00	30.8	1296.00	26.0	676.00	39.4	39.0	1521.00	29.4	864.36	28.8	829.44
29.5	870.25	34.0	1156.00	31.2	1324.96	22.4	501.76	35.8	39.0	1521.00	29.4	864.36	29.5	870.25
29.0	841.00	37.6	1413.76	30.8	1354.24	29.8	888.04	35.8	39.0	1521.00	29.4	864.36	29.0	841.00
28.4	806.56	37.2	1383.84	30.4	1296.00	26.0	676.00	39.4	39.0	1521.00	29.4	864.36	28.4	806.56
27.4	750.76	33.0	1061.00	30.0	1324.96	22.4	501.76	35.8	39.0	1521.00	29.4	864.36	27.4	750.76
28.2	795.24	N = 245	1296.00	26.0	1354.24	29.8	888.04	35.8	39.0	1521.00	29.4	864.36	28.2	795.24
25.0	625.00	$\sum x = 8607.5$	1296.00	26.0	1324.96	22.4	501.76	35.8	39.0	1521.00	29.4	864.36	25.0	625.00
25.4	645.16	$\bar{x} = 35.13$	1354.24	29.8	1296.00	24.0	576.00	39.0	39.0	1521.00	29.4	864.36	25.4	645.16

Total 11004.00

$$\bar{x} = 35.13$$

$$S^2 = 21.7$$

UROSAURUS GRACIOSA TEMPS
(BY AGE)

IMMATURE

	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
42.0		1764.00										
32.0		1024.00										
33.2		1102.24										
27.8		772.84										
37.0		1369.00										
<u>35.2</u>		<u>1239.04</u>										
N =	6											

$$\sum x = 207.2$$

$$\sum x^2 = 7271.12$$

$$\bar{x} = 34.53$$

$$35.8 \quad 1231.64$$

$$41.3 \quad 1705.69$$

$$N = 8$$

$$\sum x = 284.3$$

$$\sum x^2 = 10,258.45$$

$$\bar{x} = 35.53$$

$$\sum x^2 = 1262.38$$

$$\sigma^2 = 22.8$$

$$\sigma = \sqrt{22.8}$$

$$= 4.75$$

UROSAURUS GRACIOSA TEMPS
(BY AGE)

JUVENILE

\bar{x} x^2 x x^2 x x^2 x x^2 x x^2 x x^2

41.4 1713.96

$$N = 1$$

$$\sum x = 41.4$$

$$\bar{x} = 41.4$$

$$\sum x^2 = 1713.96$$

$$\bar{x}^2 = 1713.96$$

UTA

STANSORIUM



STANDBY JAMA

UTA STANSBURIANA TEMPS
(BY MONTH)

JANUARY

x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
30.2	912.04			33.8									
30.0	900.00				36.0								
36.0	1296.00			33.8									
35.6	1267.36												
35.4	1253.16												

$$N = 5$$

$$\sum x = 167.2$$

$$\sum x^2 = 5623.56$$

$$\bar{x} = 33.44$$

$$\bar{x}^2 = 1119.23$$

$$\sigma^2 = 7.35$$

$$\sigma = \sqrt{7.35}$$

$$= 2.7$$

UTA STANSBURIANA TEMPS
(BY MONTH)

FEBRUARY

	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
37.0	1369.00											
31.8	1011.24											
30.8	948.64											
36.6	1339.56											
36.8	1354.24											
37.0	1369.00											
35.6	1267.36											
36.4	1324.96											
31.6	998.56											
37.4	1398.76											
36.6	1339.56											
34.8	1211.04											
31.4	985.96											

$$N = 13$$

$$\Sigma x = 453.8$$

$$\Sigma x^2 = 15917.88$$

$$\bar{x} = 34.9$$

$$(\bar{x})^2 = 1210.01$$

$$\text{Range} = 37.0 - 31.4$$

$$s^2 = \frac{15917.88 - 13(1210.01)}{12} = \frac{872.75}{12} = 6.98$$

$$SE = \sqrt{\frac{6.98}{13}} = \sqrt{0.53} = .73$$

$\frac{2SE}{\bar{x}}$
33.4
36.4

UTA STANSBURIANA (BY MONTH) TEMPS

MARCH

UTA STANSBURIANA TEMPS
(BY MONTH)

APRIL

x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
36.8	1354.24												
38.6	1489.96												
36.8	1354.24												
<u>35.3</u>	<u>1246.09</u>												
30.6	936.36												
37.2	1383.84												
35.4	1253.16												
32.8	1075.84												
<u>35.9</u>	<u>1288.81</u>												
<u>37.5</u>	<u>1406.25</u>												
33.2	1102.24												
32.8	1075.84												
30.5	930.25												
30.7	942.49												
30.4	924.16												
39.2	1169.64												
<u>36.6</u>	<u>1339.56</u>												
39.8	1211.04												
37.0	1369.00												
32.4	1049.76												
<u>35.0</u>	<u>1225.00</u>												
<u>34.4</u>	<u>1183.36</u>												
<u>33.0</u>	<u>1089.00</u>												
<u>35.4</u>	<u>1253.16</u>												
<u>39.0</u>	<u>1521.00</u>												
30.5	930.25												
<u>38.0</u>	<u>1444.00</u>												

$$N = 27$$

$$\sum x = 934.8$$

$$\sum x^2 = 12548.54$$

$$\bar{x} = 34.62$$

$$\bar{x}^2 = 1198.74$$

UTA STANSBURIANA TEMPS (BY MONTH)

MAY

UTA STANSBURIANA TEMPS (BY MONTH)

JUNE

UTA STANSBURIANA TEMPS
(BY MONTH)

JULY

	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
36.0	1386.00											
<u>36.0</u>	<u>1296.00</u>											
33.5	1122.25											
35.6	1267.36											
35.0	1225.00											
<u>34.2</u>	<u>1169.64</u>											
<u>33.9</u>	<u>1149.21</u>											

$$N = 7$$

$$\sum x = 244.2$$

$$\sum x^2 = 8525.46$$

$$\bar{x} = 34.88$$

$$(x) = 1216.61$$

$$s^2 = 1.53$$

$$S.E. = \sqrt{0.218}$$

$$= .467$$

UTA STANSBURIANA TEMPS
(BY MONTH)

AUGUST

	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
<u>34.0</u>	1156.00											
<u>38.0</u>	1444.00											
<u>35.4</u>	1253.16											
<u>37.7</u>	1421.29											
<u>37.0</u>	1369.00											
<u>36.8</u>	1354.24											
<u>37.4</u>	1398.76											
	N = 7											

$$\Sigma x = 256.3$$

$$\Sigma x^2 = 9394.45$$

$$\bar{x} = 36.61$$

$$(\bar{x})^2 = 1340.39$$

$$s^2 = 2.40$$

$$s.e. = \sqrt{.303} \\ = .546$$

$$36.8 \ 1354.24$$

$$37.8 \ 1428.84$$

$$37.1 \ 1376.41$$

$$39.4 \ 1553.36$$

$$36.8 \ 1354.24$$

$$38.2 \ 1459.24$$

$$37.8 \ 1428.84$$

$$37.2 \ 1383.84$$

$$s^2 = \frac{20734.45 - 1376.41}{14} = \frac{8831}{14} = 631$$

$$s.e. = \sqrt{\frac{631}{14}} = \sqrt{42} = 6.5$$

$$N = 15$$

$$\Sigma x = 557.4$$

$$\Sigma x^2 = 20734.46$$

$$\bar{x} = 37.1$$

$$(\bar{x})^2 = 1376.41$$

$$\text{Range} = 34.0 - 39.4^{\circ}\text{C}$$

UTA STANSBURIANA TEMPS
(BY MONTH)

SEPTEMBER

	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
<u>31.7</u>		1004.89										
<u>33.0</u>		1089										
<u>29.5</u>		870.25										
<u>38.0</u>		1444.00										
<u>37.0</u>		1369.00										
<u>36.6</u>		1339.56										
<u>35.7</u>		1274.49										
<u>34.8</u>		1211.04										
<u>36.0</u>		1296.00										
<u>36.3</u>		1317.69										
<u>35.0</u>		1225.00										
<u>36.2</u>		1310.44										
<u>36.4</u>		1324.96										
<u>26.6</u>		707.56										
<u>25.9</u>		670.81										
<u>39.0</u>		1521.00										
<u>37.8</u>		1428.84										
<u>39.8</u>		1584.04										
<u>39.8</u>		1584.04										
<u>35.2</u>		1239.04										

$$N = 20$$

$$\Sigma x = 700.3$$

$$\Sigma x^2 = 24811.65$$

$$\bar{x} = 35.01$$

$$(\bar{x})^2 = 1225.70$$

$$s^2 = 15.66$$

$$s = \sqrt{1.783}$$

$$= .885$$

UTA STANSBURIANA TEMPS
(BY MONTH)

OCTOBER

x x^2 x x^2 x x^2 x x^2 x x^2 x x^2

35.4 1253.16

37.5 1406.25

35.3 1246.09

$N = 3$

$\sum x = 108.2$

$\sum x^2 = 3905.5$

$\bar{x} = 36.067$

$(\bar{x})^2 = 1300.32$

UTA stansburiana Temp.
(By Mouth)
NOVEMBER

X	X^2
37.6	1413.76
33.2	1102.24
34.0	1156.00
38.0	1444.00
37.5	1406.25
35.8	1281.64
36.5	1332.25
35.0	1225.00
<u>36.8</u>	<u>1354.24</u>

$$N = 9$$

$$\sum X = 324.4$$

$$\sum X^2 = 11,715.38$$

$$\bar{X} = 36.0$$

$$\overline{(X^2)} = 1296.00$$

UTA stansburiana Temps.
(By Month)

DECEMBER

X	X^2
32.6	
36.6	
36.4	
35.2	
32.0	

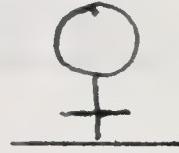
UTA STANSBURIANA TEMPS
 (BY SEX)



x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
33.8	1142.44	36.0	1296.00	33.2	1102.24	38.6	1489.96	37.1			
37.2	1383.84	36.6	1339.56	35.0	1225.00	36.6	1339.56	36.8			
38.0	1444.00	34.8	1211.04	28.4	806.56	37.0	1369.00	36.8			
36.0	1296.00	35.4	1253.16	33.4	1115.56	37.0	1369.00	38.2			
<u>36.0</u>	<u>1296.00</u>	<u>36.0</u>	<u>1296.00</u>	<u>36.2</u>	<u>1310.44</u>	<u>38.8</u>	<u>1505.44</u>	<u>37.2</u>			
<u>33.5</u>	<u>1122.25</u>	<u>37.4</u>	<u>1398.76</u>	<u>35.5</u>	<u>1260.25</u>	<u>37.0</u>	<u>1369.00</u>	<u>37.6</u>			
35.6	1267.36	35.3	1246.09	30.4	924.16	36.8	1354.24	38.0			
<u>34.0</u>	<u>1156.00</u>	<u>35.0</u>	<u>1225.00</u>	<u>34.2</u>	<u>1169.64</u>	<u>37.4</u>	<u>1398.76</u>	<u>37.5</u>			
<u>35.4</u>	<u>1253.16</u>	<u>34.6</u>	<u>1197.16</u>	<u>36.6</u>	<u>1339.56</u>	<u>33.0</u>	<u>1089.00</u>	<u>35.8</u>			
37.7	1421.29	36.0	1296.00	37.8	1428.84	29.0	841.00	36.5			
37.0	1369.00	32.4	1049.76	39.8	1584.04	38.2	1459.24	36.8			
31.7	1004.89	34.8	1211.04	39.8	1584.04	34.2	1169.64	32.6			
33.0	1089.00	36.8	1354.24	32.4	1049.76	36.0	1296.00	36.6			
29.5	870.25	38.6	1489.96	35.0	1225.00	35.6	1267.36	36.4			
38.0	1444.00	35.3	1246.09	35.4	1253.16	35.4	1253.16	35.2			
<u>37.0</u>	<u>1369.00</u>	<u>30.6</u>	<u>936.36</u>	<u>34.8</u>	<u>1211.04</u>	<u>38.0</u>	<u>1444.00</u>	<u>32.0</u>			
36.6	1339.56	37.2	1383.84	35.2	1239.04	<u>30.6</u>	<u>936.36</u>	<u>33.8</u>			
34.8	1211.04	35.4	1253.16	35.6	1267.36	N = 107					
36.0	1296.00	35.9	1288.81	35.6	1267.36	$\Sigma x = 3772.2$					
36.3	1317.69	37.5	1406.25	37.0	1369.00	$\Sigma x^2 = 133177.78$					
35.0	1225.00	33.2	1102.24	36.0	1296.00	$\bar{x} = 35.30$					
36.2	1310.44	32.8	1075.84	37.0	1369.00	$(N) = 1246.09$					
25.9	670.81	30.7	942.49	37.0	1369.00	$S^2 = 4.10$					
35.4	1253.16	35.6	1267.36	37.0	1369.00	$S.E. = 1.053$					
30.2	912.04	40.2	1616.04	37.2	1383.84	$= .2.9$					
33.0	1089.00	<u>34.6</u>	<u>1197.16</u>	<u>36.2</u>	<u>1310.44</u>						
36.9	1361.61	36.2	1310.44	36.6	1339.56						
34.3	1176.49	35.2	1239.04	36.6	1339.56						
31.0	961.00	36.2	1310.44	35.4	1253.16						
35.6	1267.36	35.0	1225.00	35.8	1281.64						

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UTA STANSOURIANA TEMPS
(BY SEX)



UTA STANSOURIANA TEMPS
 (BY AGE)

ADULT

	x	x^2	x	x^2								
33.8	1142.44	35.6	1267.36	35.9	1288.81	37.8	1428.84	34.0	1156.00	N = 142		
37.2	1383.84	36.0	1296.00	37.5	1406.25	39.8	1584.04	36.6	1339.56	Z = 5212.6		
38.0	1444.00	36.6	1339.56	33.2	1102.24	39.8	1584.04	35.4	1253.16	Z = 18456.0		
38.2	1459.24	34.8	1211.04	32.8	1075.84	35.2	1239.04	35.8	1281.64	X = 35.2		
36.0	1296.00	35.9	1288.81	30.5	930.25	34.8	1211.04	38.6	1489.96	X = 1240.44		
36.0	1296.00	35.4	1253.16	30.7	942.49	37.0	1369.00	36.6	1339.56	X = 11.3		
33.5	1122.25	33.2	1102.24	35.6	1267.36	32.4	1049.76	33.0	1089.00	X = 1.045		
35.6	1267.36	36.0	1296.00	34.4	1183.36	35.0	1225.00	37.0	1369.00	= .12		
35.0	1225.00	37.4	1398.76	37.3	1391.29	34.4	1183.36	37.0	1369.00	36.8		
34.0	1156.00	36.8	1354.24	40.2	1616.04	33.0	1089.00	38.8	1505.44	37.8		
38.0	1444.00	33.9	1149.21	34.6	1197.16	35.4	1253.16	37.0	1369.00	37.1		
35.4	1253.16	35.3	1246.09	36.8	1354.24	39.0	1521.00	36.4	1324.96	39.4		
37.7	1421.29	35.3	1246.09	36.0	1296.00	39.8	1211.04	36.8	1354.24	36.8		
33.0	1089.00	36.0	1296.00	36.2	1310.44	32.6	1062.76	37.4	1398.76	38.2		
29.5	870.25	34.0	1156.00	35.2	1239.04	36.0	1296.00	33.0	1089.00	37.8		
38.0	1444.00	35.0	1225.00	36.2	1310.44	38.4	1474.56	34.8	1211.04	37.2		
37.0	1369.00	34.6	1197.16	35.0	1225.00	35.2	1239.04	29.0	841.00	34.0		
36.6	1339.56	36.0	1296.00	32.8	1075.84	35.6	1267.36	37.0	1369.00	38.0		
35.7	1274.49	33.7	1135.69	33.2	1102.24	35.6	1267.36	38.2	1459.24	37.5		
25.9	670.81	32.4	1049.76	35.0	1225.00	39.0	1521.00	34.2	1169.64	35.8		
35.4	1253.16	34.8	1211.04	33.0	1089.00	37.0	1369.00	33.9	1149.21	36.5		
37.5	1406.25	36.6	1339.56	28.4	806.56	36.0	1296.00	36.0	1296.00	35.0		
30.2	912.04	36.8	1354.24	33.4	1115.56	37.0	1369.00	35.6	1267.36	36.8		
30.0	900.00	38.6	1489.96	36.2	1310.44	37.0	1369.00	35.4	1253.16	36.6		
33.0	1089.00	36.8	1354.24	39.6	1568.16	34.0	1156.00	38.0	1444.00	36.4		
36.8	1354.24	35.3	1246.09	35.5	1260.25	37.0	1369.00	30.5	770.25	35.2		
36.9	1361.61	30.6	936.36	30.4	924.16	37.0	1369.00	26.0	770.25	32.0		
30.8	948.64	37.2	1383.84	34.2	1169.64	37.2	1383.84	30.6	936.36	36.0		
34.3	1126.49	35.4	1253.16	36.6	1339.56	36.2	1310.44					
31.0	961.00	32.8	1075.84	39.0	1521.00	36.6	1339.56					

UTA STANSBURIANA TEMPS
(BY AGE)

IMMATURE

	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2	x	x^2
37.0	1369.00				37.6							
31.7	1004.89				33.2							
34.8	1211.04				32.6							
36.0	1296.00				33.8							
36.3	1317.69				33.8							
35.0	1225.00											
36.2	1310.44											
36.4	1324.96											
26.6	707.56											
35.3	1246.09											
33.6	1128.96											
36.8	1354.24											
37.4	1398.76											

$$N = 13$$

$$\sum x = 453.1$$

$$\sum x^2 = 15,814.63$$

$$\bar{x} = 34.75$$

$$\bar{x}^2 = 1214.52$$

$$s^2 = 1.92$$

$$s = \sqrt{1.92}$$

$$= .823$$

UTA STANSBURIANA TEMPS
(BY AGE)

JUVENILE

x x^2 x x^2 x x^2 x x^2 x x^2 x x^2

Thermal Gradient

Thermal Gradient

Crotaphytus III
Crotaphytus wis. NH IX I
Uma notata II
● Phrynosoma platyrhinos IIII
Phrynosoma coronatum NH
Ictiophorus magister IIII
Urosaurus graciosus IIII

Capt April 11-12/69 Algodones Field Trip

Callosaurus

2nd Day in Gradient 4/19/69

Lights on at 8:15

Reading every 17 min. starting @ ~~11:00AM~~ 11:00AM

- | | |
|----|------|
| 1 | 37.2 |
| 2 | 38.6 |
| 3 | 39.2 |
| 4 | 38.3 |
| 5 | 39.0 |
| 6 | 40.7 |
| 7 | 39.8 |
| 8 | 38.2 |
| 9 | 39.4 |
| 10 | 39.4 |
| 11 | 39.3 |
| 12 | 39.1 |
| 13 | 39.1 |
| 14 | 40.1 |
| 15 | 37.8 |
| 16 | 38.3 |
| 17 | 39.2 |
| 18 | 38.2 |
| 19 | 37.8 |
| 20 | 38.7 |
| 21 | 38.4 |
| 22 | 39.4 |
| 23 | 38.9 |
| 24 | 38.5 |
| 25 | 38.0 |

<u>Callisaurus draconoides</u> from Mojave Field Trip				(May 16-18)
	(NOT CONNECTED)	(DEAD)	(DEAD)	Data from 2nd day in chamber readings every 15 minutes light on at 1000. readings from H45
1	1	13	17	22
2	38.3			37.3
3	38.6			37.2
4	38.6			37.5
5	39.7			37.6
6	39.1			37.5
7	34.7			37.0
8	38.9			36.8
9	40.1			36.9
10	39.7			37.2
11	39.4			36.9
12	40.6			36.6
13	37.4			37.4
14	37.3			37.6
15	36.7			37.7
16	36.9			37.7
17	37.1			37.4
18	37.5			37.5
19	37.8			38.0
20	37.9			37.2
21	35.1			37.0
22	38.6			36.3
23	38.2			37.6
24	39.2			38.4
25	36.5			37.7
26	36.6			36.1
		Not in heat at all. Temp. remaine at approx. 35°C.	Temp. remaine at approx. 35°C.	

Callisaurus draconoides from Mojave Field Trip.
(May 16-17) 23-25). Data from 2nd day in
chamber. Readings every 15 minutes.

#13

1 36.2
2 36.4
3 36.5
4 36.5
5 36.6
6 36.7
7 36.8
8 36.9
9 35.9
10 31.7
11 30.2
12 32.0
13 32.1
14 32.1
15 32.4
16 32.7
17 32.8
18 32.9
19 32.9
20 33.8
21 34.0
22 34.1
23 34.3
24 34.4
25 34.4

all others dead. Data worthless because
they died at the beginning
of the experiment.

Ctenophores Capt April 11-12/69 Algodones Field
 2nd Day in Gradient 4/15/69
 10:15 AM - 4:15PM (15 min intervals)

	1	6	8	13
1	34.8	38.4	35.1	38.5
2	35.1	38.5	39.5	37.7
3	36.3	38.3	40.0	36.5
4	36.5	38.2	33.3	38.9
5	38.6	38.1	37.7	37.7
6	36.9	39.0	37.9	37.4
7	35.4	39.5	35.0	37.7
8	37.3	39.1	37.3	36.5
9	37.8	37.8	38.5	38.4
10	37.0	37.0	36.9	38.5
11	36.7	36.7	35.2	38.2
12	37.1	37.1	38.6	34.2
13	37.2	38.3	38.1	32.8
14	36.8	38.4	35.9	33.8
15	37.0	38.4	36.8	32.9
16	37.2	38.5	36.7	33.0
17	37.3	38.5	35.3	35.3
18	37.0	38.6	39.3	40.0
19	37.3	39.0	39.5	40.3
20	37.4	40.0	39.7	34.5
21	37.8	40.4	35.9	35.6
22	37.7	40.1	37.2	37.0
23	33.2	40.1	36.7	37.9
24	27.2			
25				

Capt. April 11-12/69 Algodones Field Trip
 2nd Day in Gradient 4/18
 • Lights on at 8:15
 Reading every 15 min beginning 11:00AM -

	# 6 <u><i>Uma</i></u> <u><i>metata</i></u>	# 8 <u><i>Uma</i></u>	# 13 <u><i>Crotaphytus</i></u>	# 18 <u><i>Crotaphytus</i></u>
1	33.6	32.7	36.5	38.3
2	35.7	34.6	36.0	36.7
3	32.5	33.3	36.5	37.7
4	37.0	32.9	37.1	34.3
5	36.9	35.0	36.3	35.2
6	36.8	34.6	37.3	37.9
7	36.9	33.7	39.7	30.8
8	36.9	33.2	38.7 38.7	26.3
9	36.7	31.7	36.7	38.6
10	36.3	35.7	35.3	29.1
11	33.5	34.6	39.8	37.2
12	35.0	35.1	40.4	37.4
13	34.8	34.5	37.5	37.5
14	33.7	34.0	37.8	39.5
15	33.8	34.3	36.5	30.1
16	32.3	34.4	38.8	26.4
17	32.8	34.1	42.1	25.2
18	34.5	34.5	38.0	24.7
19	31.9	34.3	34.6	24.8
20	35.5	34.4	32.0	24.9
21				
22				
23				
24				
25				

CN ROLL
#3

Crotaphytus wislizenii from Mojave field trip.
(May 16-18) Data from second day in chamber.
Reading every 15 minutes. Lights on at 1000.
Readings from 1200.

(DISCONNECTED)

1	6	13	17	22
1 34.7	38.7	37.3	34.7	37.8
2 37.3	37.9	36.8	34.2	37.7
3 38.5	37.3	37.5	33.5	37.8
4 38.1	37.9	39.3	33.4	38.6
5 38.2	38.2	39.9	33.3	37.4
6 38.3	38.4	39.1	33.4	36.8
7 38.5	39.5	39.0	38.7	36.9
8 37.6	39.8	39.1	34.0	36.9
9 33.4	39.7	39.5	34.2	37.0
10 34.9	40.3	39.5	34.3	37.0
11 40.0	40.4	39.3	34.2	36.6
12 39.7	39.5	37.2	38.7	36.6
13 39.1	38.2	38.2	38.5	36.3
14 38.9	37.3	38.3	34.9	36.4
15 38.8	33.1	37.8	26.9	36.0
16 38.8	40.8	37.7	31.9	36.0
17 38.4	34.9	33.0	32.3	33.9
18 37.0	38.7	38.3	33.8	40.0
19 36.7	38.2	38.6	31.0	38.0
20 38.7	36.9	39.0	29.5	37.3
21 34.2	36.6	39.0	39.6	37.1
22 31.0	37.8	39.1	28.9	37.2
23 34.8	38.6	39.1	25.5	37.3
24 35.3	37.5	39.3	24.8	37.6
25 35.5	41.2	39.3	24.6	37.6

Phrynosoma platyrhinos collected on Mojave field
trip (May 23-25). Lights on at 1000. Data from
Data from second day in chamber. Readings every
15 minutes. Recorded from 1145.

(LIVE)	(DEAD)	(DEAD)	(DEAD)
1	6	13	17
1	28.6	32.9	35.6
2	28.7	31.5	35.6
3	28.7	32.1	34.8
4	28.3	35.9	32.7
5	28.5	35.6	35.7
6	28.9	33.4	31.2
7	28.2	32.2	32.0
8	28.1	33.1	35.3
9	28.2	33.7	37.7
10	28.2	34.1	38.5
11	28.3	34.3	38.4
12	28.3	34.5	38.9
13	27.4	35.0	39.2
14	30.9	34.9	39.3
15	28.0	34.7	39.3
16	28.3	34.6	39.3
17	27.8	34.6	39.3
18	28.5	34.5	39.2
19	28.1	34.3	39.2
20	28.7	32.3	39.3
21	28.5	32.4	39.5
22	28.8	32.9	37.3
23	28.9	33.3	35.3
24	28.5	33.5	34.7
25	28.3	33.9	34.5

Died early in the experiment. ~~Date~~ No measurable data.

on Roll
#2

Progression of the Brain Nerve Ganglion
Mammal taken 3 Dec 19 5/15/19 3rd Stage
Ganglion taken 3/15/19

	6	8	10	12	
1	35.1	35.3	34.6	37.1	35.5
2	35.9	35.9	36.9	39.1	35.6
3	36.3	36.5	34.0	35.4	35.4
4	36.9	38.4	33.3	33.3	34.7
5	37.5	36.2	35.7	33.3	34.6
6	37.8	36.1	34.8	31.3	34.8
7	28.1	37.1	35.1	29.9	35.1
8	28.4	37.5	34.2	29.5	35.4
9	35.6	37.5	34.1	29.6	35.5
10	35.1	36.4	34.1	30.3	34.4
11	38.0	36.3	33.5	30.4	38.2
12	38.4	36.0	35.4	30.1	36.8
13	37.8	35.7	36.3	34.7	36.1
14	37.5	37.0	36.2	34.6	35.6
15	37.1	36.5	36.2	34.6	34.9
16	36.9	35.7	35.9	36.0	34.8
17	36.9	36.1	35.3	41.8	34.5
18	36.3	36.7	35.1	41.0	34.5
19	35.6	36.9	34.1	32.6	34.3
20	37.0	35.7	35.4	35.5	37.0
21	37.4	36.9	34.6	34.9	37.5
22	37.0	36.7	35.3	34.5	37.2
23	36.8	36.7	35.7	33.7	35.4
24	38.0	36.5	35.9	31.9	35.7
25	38.4	37.6	35.2	31.3	36.7

considerable
movement up to this
point

went up

→ 42.6

o Roll
#2

1960 on 7/20/60
S. Taiwan Coast - 4000 fms.
S. magnitude 8.2 on 5/17 (Largest)

2nd Day in Chang 5/20

	1	6	10	16
1	35.9	32.6	33.2	34.2
2	36.9	32.9	33.6	35.6
3	35.5	32.3	33.2	35.5
4	35.4	33.0	33.9	35.4
5	36.9	33.1	33.4	34.7
6	36.2	33.6	33.1	35.3
7	35.6	33.7	33.3	34.4
8	36.1	32.7	34.0	36.6
9	35.6	31.7	32.3	35.3
10	32.7	32.8	35.0	36.5
11	36.6	33.0	34.9	36.1
12	35.2	33.0	34.6	34.9
13	34.8	33.3	34.0	34.6
14	34.6	34.0	33.1	34.5
15	36.0	34.2	33.1	34.3
16	36.3	33.3	32.8	34.7
17	35.9	33.1	33.4	34.9
18	36.2	32.2	32.5	35.2
19	34.5	32.2	32.3	34.5
20	34.0	32.3	32.7	34.0
21	34.3	32.7	33.3	33.8
22	35.2	34.2	33.7	34.5
23	35.5	33.3	33.8	34.0
24	36.3	33.1	34.1	35.0
25	35.7	33.2	33.7	35.9

Urosaurus graciosus Cap. April 11-12/69 on Algodones Field Trip
 Roll 1
 2nd Day in Gradient 4/21
 11:30 - 17.50 Lights on at 8:15
 (readings every 17 min)

	#6	#8	#13	#18
1	39.5	36.2	29.5	35.3
2	40.0	33.2	30.0	35.1
3	40.1	34.4	30.0	33.7
4	40.0	35.0	30.4	33.6
5	40.2	35.2	31.3	33.6
6	40.2	35.2	31.8	34.0
7	40.3	35.2	31.9	33.8
8	40.4	35.3	32.0	34.2
9	40.7	35.6	32.9	35.1
10	41.2	37.2	33.3	35.7
11	40.0	32.7	33.7	34.9
12	38.8	31.1	33.7	29.6
13	39.9	33.9	33.9	35.0
14	39.9	34.4	33.9	35.8
15	39.9	34.6	33.9	35.8
16	40.0	34.8	33.9	35.5
17	40.1	34.9	34.2	30.4
18	40.4	35.0	34.5	27.9
19	40.8	35.3	34.6	28.8
20	40.7	31.4	34.3	33.7
21	40.2	30.6	33.8	33.7
22	39.9	30.9	34.2	35.0
23	40.1	33.3	34.0	35.1
24	40.4	33.9	34.0	35.1
25				

R-371

STEEL BACKPLATE

S. E. & M. VERNON, INC.

U. S. A.

